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ABSTRACT

This document is a collection of mathematics pretests and posttests for grades 3 and 4 on the topics of sets, place value, addition-subtraction, multiplication, division, multiplication-division, and fractions. Two forms for each test are provided plus answer keys. This work was prepared under an ESEA Title III contract. (DT)

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MATH...

PRETESTS AND POSTTESTS FOR THIRD AND FOURTH GRADES

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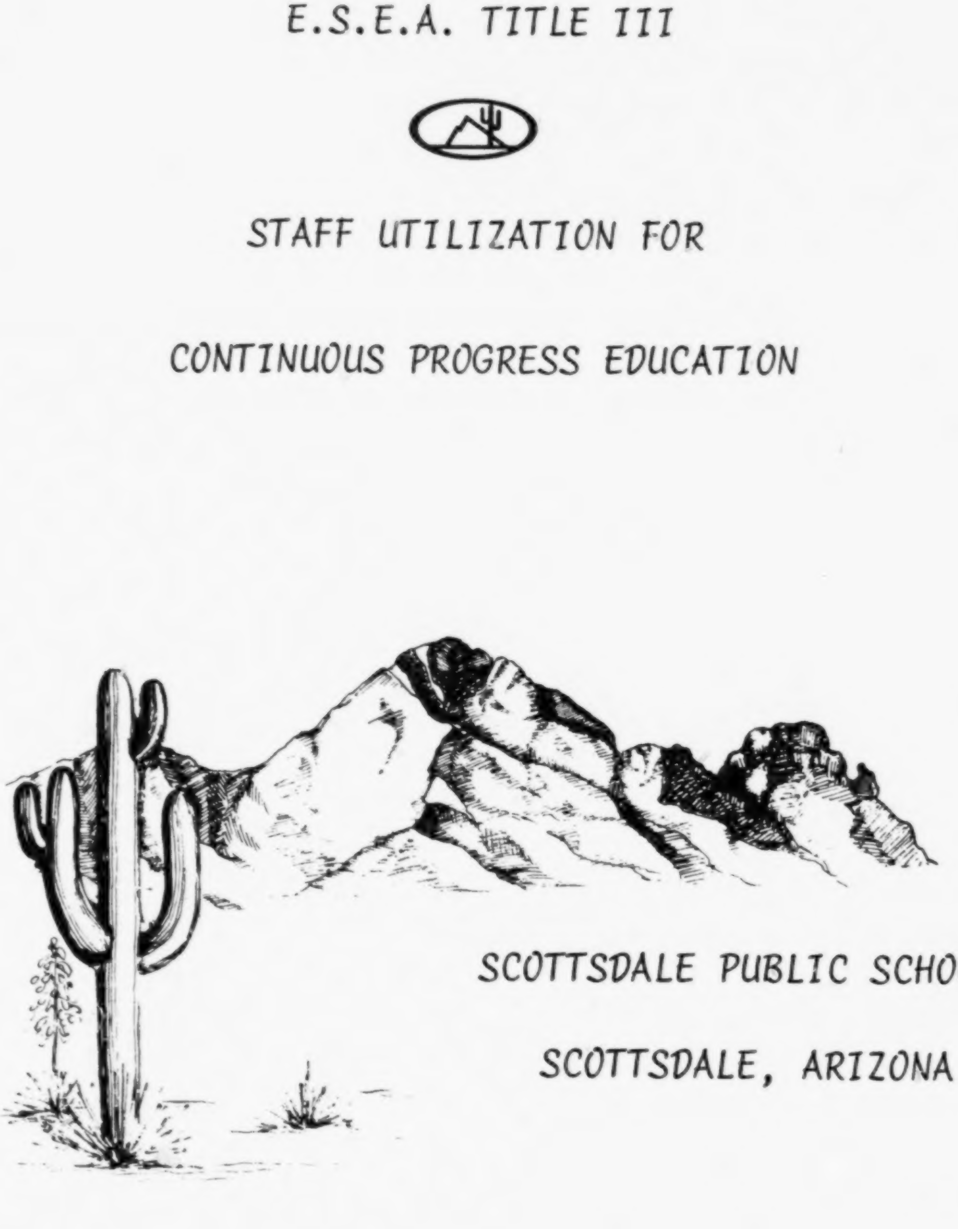

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MATH PRE-TESTS AND POST-TESTS
FOR GRADES 3 AND 4

STAFF UTILIZATION FOR CONTINUOUS
PROGRESS EDUCATION PROJECT
E.S.E.A. TITLE III

Developed by:

Geri Dwight
Peg Caldwell

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FORM B

- MATH PRE-TESTS
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- MATH POST-TESTS
- MATH POST-TESTS KEYS

FORM A

NAME ____________________

TEAM ________ TEACHER ____________

DATE ____________________

FORM A or B (circle one)

SETS

	Pre-Test	Program	Post-Test	Comment
S1 Listing and describing sets	___ 2		___ 2	
S2 Braces	___ 1		___ 1	
S3 Equivalent sets	___ 2		___ 2	
S4 Equal sets	___ 1		___ 1	
S5 Empty sets	___ 1		___ 1	
S6 Cardinal numbers	___ 1		___ 1	
S7 Sub-sets	___ 2		___ 2	

	Pre-Test	Program	Post-Test	Comment
S1 Listing and describing sets	— 2		— 2	
S2 Braces	— 1		— 1	
S3 Equivalent sets	— 2		— 2	
S4 Equal sets	— 1		— 1	
S5 Empty sets	— 1		— 1	
S6 Cardinal numbers	— 1		— 1	
S7 Sub-sets	— 2		— 2	
8 Universal sets	— 2		— 2	
S9 Number patterns	— 3		— 3	
10 Points	— 3		— 3	
S11 Finite and Infinite	— 3		— 3	
Supplementary work				

Name____________________
Team____________________
Teacher____________________
Date____________________

SETS　　　　PRE-TEST　　　　FORM A

S 1

Show the set by listing the objects in it.

1. The first 4 letters in the alphabet:

____

Show the set by describing the objects in it:

{ horses, dogs, cats, bears, elephants }

____

— — —
2

S 2

Use the correct symbols to show these things are a set.

_____ ◇ ◇ ◇ _____

— — —
1

S 3

Are these two sets equivalent?

S 1 Show the set by listing the objects in it.

1. The first 4 letters in the alphabet:

____

Show the set by describing the objects in it:

{ horses, dogs, cats, bears, elephants }

____

___ 2

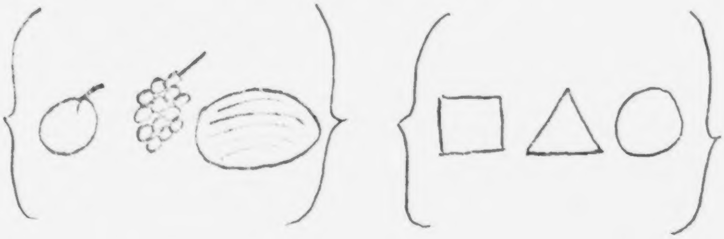
S 2 Use the correct symbols to show these things are a set.

_____ ◇ ◇ ◇ _____

___ 1

S 3

Are these two sets equivalent?



__________ Yes or No

Are these two symbols equivalent?

{ ☆ ☆ ☆ ☆ } { a b c d e }

__________ Yes or No

___ 2

S 4

{car, train, boat}{boat, train, bus}

Are these two sets equal? __________
Yes or No

1

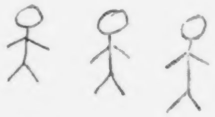
S 5

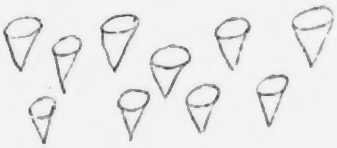
The set of all giraffes on the playground is an ____________________________
(equal, empty, equivalent)
set.

1

S 6

Name the cardinal number for each set:





n (A) = _____ n (H) = ______

1

S 7

Here is a set of letters from the alphabet: {e, a, k, n, x, i, z, w, o, u, m, d}

List the subsset letters that are vowels:

_____ _____ _____ _____ _____

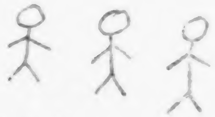
_ _ _ _ _ _ _ _
Yes or No

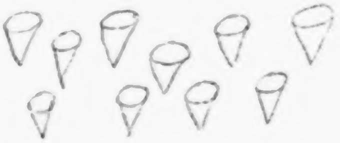
$\frac{\_\_\_}{1}$

S 5 The set of all giraffes on the playground is an _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _ _
(equal, empty, equivalent)
set.

$\frac{\_\_\_}{1}$

S 6 Name the cardinal number for each set:





n (A) = _ _ _ _ _   n (H) = _ _ _ _ _ _

$\frac{\_\_\_}{1}$

S 7 Here is a set of letters from the alphabet: { e, a, k, n, x, i, z, w, o, u, m, d }

List the subset letters that are vowels:

____ ____ ____ ____ ____

List the subset letters that are not vowels:

____ ____ ____ ____ ____ ____ ____ ____

$\frac{\_\_\_}{2}$

S 8 If you had a universal set of 10, how would you write:

13 _ _ _ _ _ _ _

20 _ _ _ _ _ _ _

$\frac{\_\_\_}{2}$

S 9 Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
3	4				

Find the missing numbers:

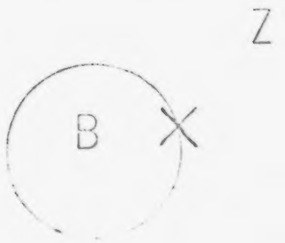
{(2,3) (3,4) (4,__) (5,6) (__, 7) (7,__}

___/3

S 10 Name the points inside the circle ____

Name the points on the circle ____

Name the points outside the circle ____



___/3

S 11 Tell if the set is finite or infinite:

1. The letters in the alphabet: _________

2. The shapes that can be drawn: _________

3. The numbers greater than 50: _________

___/3

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

SETS PRE-TEST FORM A

S 1

Show the set by listing the objects in it.

1. The first 4 letters in the alphabet:

{abcd}

Show the set by describing the objects in it:

{horses, dogs, cats, bears, elephants}

{animals}

___ 2

S 2

Use the correct symbols to show these things are a set.

{◇ ◇ ◇}

___ 1

S 3

Are these two sets equivalent?

S 1

Show the set by listing the objects in it.

1. The first 4 letters in the alphabet:

{abcd}

Show the set by describing the objects in it:

{horses, dogs, cats, bears, elephants}

{animals}

___
2

S 2

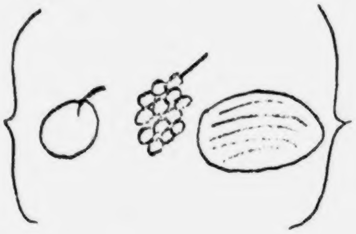
Use the correct symbols to show these things are a set.

{◇ ◇ ◇}

___
1

S 3

Are these two sets equivalent?



{□ △ ○}

Yes
Yes or No

Are these two symbols equivalent?

{☆☆☆☆} {abcde}

no
Yes or No

___
2

S 4

{car, train, boat} {boat, train, bus}

Are these two sets equal? no
Yes or No

___ / 1

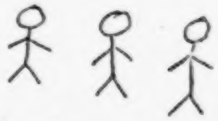
S 5

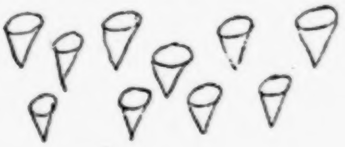
The set of all giraffes on the playground is an empty
(equal, empty, equivalent)
set.

___ / 1

S 6

Name the cardinal number for each set:





n (A) = 3 n (H) = 10

___ / 1

S 7

Here is a set of letters from the alphabet: {e, a, k, n, x, i, z, w, o, u, m, d}

List the subset letters that are vowels:

a e i o u

List the subset letters that are not vowels:

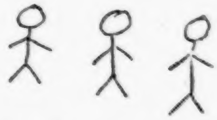
Are these two sets equal? __no__
Yes or No

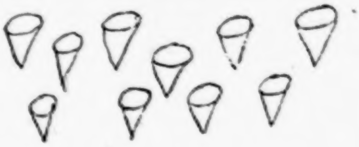
___ 1

S 5 The set of all giraffes on the playground is an __empty__ (equal, empty, equivalent) set.

___ 1

S 6 Name the cardinal number for each set:





n (A) = __3__ n (H) = __10__

___ 1

S 7 Here is a set of letters from the alphabet: { e, a, k, n, x, i, z, w, o, u, m, d }

List the subset letters that are vowels:

a e i o u

List the subset letters that are not vowels:

k n x z w v m d

___ 2

S 8 If you had a universal set of 10, how would you write:

13 {_____}
20 {_____}

___ 2

S 9

Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
3	4	5	6	7	8

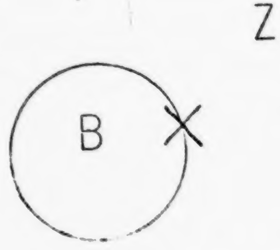
Find the missing numbers:

{ (2,3) (3,4) (4,5) (5,6) (6, 7) (7,8) }

___ 3

S 10

Name the points inside the circle B



Name the points on the circle X

Name the points outside the circle Z

___ 3

S 11 Tell if the set is finite or infinite:

+	1	2	3	4	5
3	4	5	6	7	8

Find the missing numbers:

{(2,3) (3,4) (4,5) (5,6) (6,7) (7,8)}

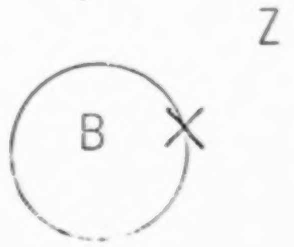
3

S 10

Name the points inside the circle B

Name the points on the circle X

Name the points outside the circle Z



3

S 11

Tell if the set is finite or infinite:

1. The letters in the alphabet: finite

2. The shapes that can be drawn: finite

3. The numbers greater than 50: infinite

3

Name ______________________
Team ______________________
Teacher ____________________
Date ______________________

SETS POST-TEST FORM A

S 1

Show the set by listing the objects in it.

The last 3 letters of the alphabet:

____

Show the set by describing the objects in it.

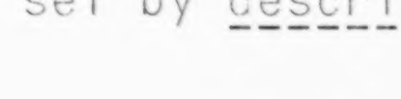
peaches, oranges, cherries, pears, grapes, plums:

____

___
2

S 2

Use the correct symbols to show these things are a set:



___
1

S 1 Show the set by listing the objects in it.

The last 3 letters of the alphabet:

____

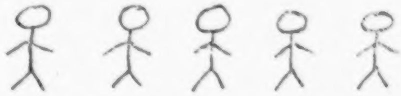
Show the set by describing the objects in it.

peaches, oranges, cherries, pears, grapes, plums:

____

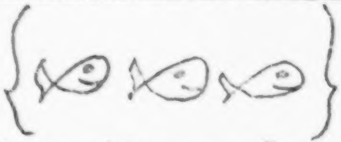
__ 2

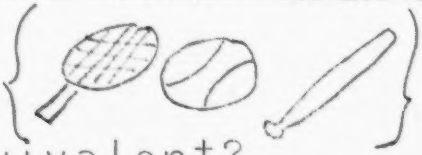
S 2 Use the correct symbols to show these things are a set:



__ 1

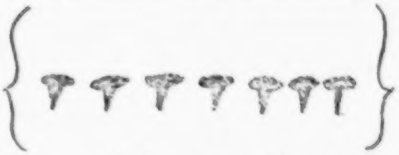
S 3





Are these 2 sets equivalent? ________
Yes or No

____



{Days in the week}

Are these 2 sets equivalent? ________
Yes or No

__ 2

S 4

{plane, car, boat} {boat, train, car}

Are these two sets equal? ___________
Yes or No

___
1

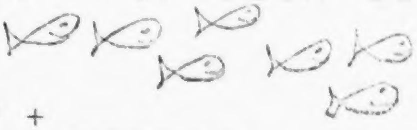
S 5

The set of all boys who are 25 feet tall is an ______________________ set
equal, equivalent, empty

___
1

S 6

Name the cardinal number for each set:



n (A) = ______ n (H) + ______

___
1

S 7

Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, w, o, v, d)

List the subset letters that are vowels:

____ ____ ____ ____ ____

List the subset letters that are not

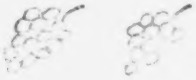
___ 1

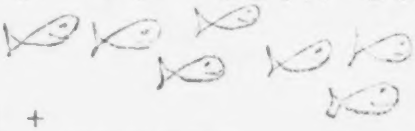
S 5 The set of all boys who are 25 feet tall is an ______________________ set

equal, equivalent, empty

___ 1

S 6 Name the cardinal number for each set:





n (A) = ______ n (H) + ______

___ 1

S 7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, w, o, v, d)

List the subset letters that are vowels:

____ ____ ____ ____ ____

List the subset letters that are not vowels:

____ ____ ____ ____ ____ ____ ____ ____

___ 2

S 8 If you had a universal set of 2, how would you write:

3 __________

5 __________

___ 2

S 9 Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
6	7				

Find the missing numbers:

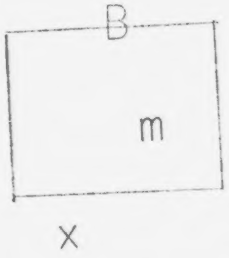
(2,4) (4,6) (6,__) (8,10) (__,12) (12,__)

3

S 10 Name the points inside the square: -----

Name the points on the square: -----

Name the points outside the square: -----



3

S 11 Tell if the set is finite or infinite:

1. Number greater than 10: --------

2. The students in 3-4 learning center: --------

6	7				

Find the missing numbers:

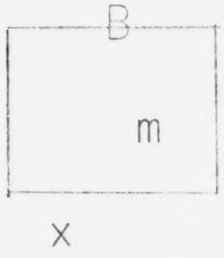
(2,4) (4,6) (6,__) (8,10) (__,12) (12,__)

--- 3

S 10 Name the points inside the square: -----

Name the points on the square: -----

Name the points outside the square: -----



--- 3

S 11 Tell if the set is finite or infinite:

1. Number greater than 10: --------
2. The students in 3-4 learning center: --------
3. All the shapes that can be drawn: --------

--- 3

KEY

Name ______________________
Team ______________________
Teacher ______________________
Date ______________________

SETS POST-TEST FORM A

S 1

Show the set by listing the objects in it.

The last 3 letters of the alphabet:

{x y z}

Show the set by describing the objects in it.

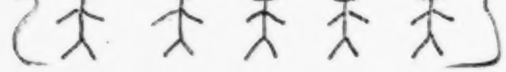
peaches, oranges, cherries, pears, grapes, plums:

{fruit}

___ 2

S 2

Use the correct symbols to show these things are a set:



___ 1

S 1

Show the set by listing the objects in it.

The last 3 letters of the alphabet:

{x y z}

Show the set by describing the objects in it.

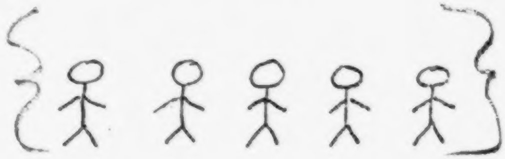
peaches, oranges, cherries, pears, grapes, plums:

{fruit}

2

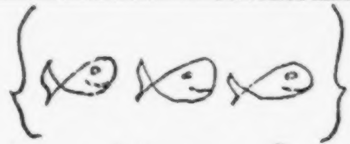
S 2

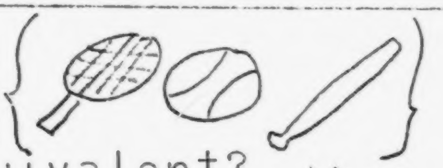
Use the correct symbols to show these things are a set:



1

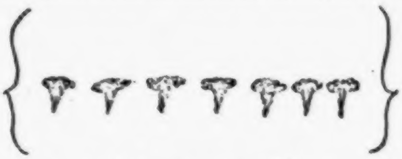
S 3





Are these 2 sets equivalent? Yes

Yes or No



{Days in the week}

Are these 2 sets equivalent? Yes

Yes or No

2

S 4

{plane, car, boat} {boat, train, car}

Are these two sets equal? no
Yes or No

1

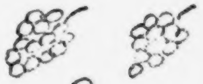
S 5

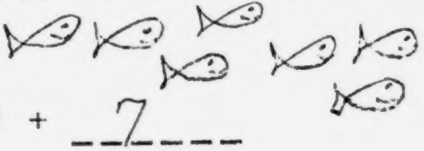
The set of all boys who are 25 feet tall is an empty set.
equal, equivalent, empty

1

S 6

Name the cardinal number for each set:





n (A) = 2   n (H) + 7

1

S 7

Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, w, o, v, d)

List the subset letters that are vowels:

a e i o u

List the subset letters that are not vowels:

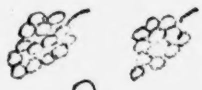
m k b x z w v d

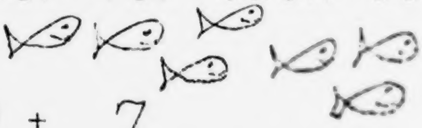
$\frac{\quad}{1}$

S 5 The set of all boys who are 25 feet tall is an empty set.
equal, equivalent, empty

$\frac{\quad}{1}$

S 6 Name the cardinal number for each set:





n (A) = 2 n (H) + 7

$\frac{\quad}{1}$

S 7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, w, o, v, d)

List the subset letters that are vowels:

a e i o u

List the subset letters that are not vowels:

m k b x z w v d

$\frac{\quad}{2}$

S 8 If you had a universal set of 2, how would you write:

3 { }

5 { }

$\frac{\quad}{2}$

S 9 Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
6	7	8	9	10	11

Find the missing numbers:

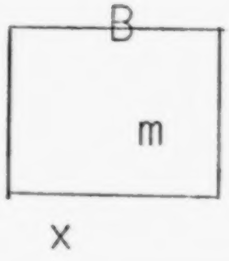
(2,4) (4,6) (6,8) (8,10) (10,12) (12,14)

--- 3

S 10 Name the points inside the square: m

Name the points on the square: B

Name the points outside the square: x



--- 3

S 11 Tell if the set is finite or infinite:

1. Number greater than 10: inFinite

2. The students in 3-4 learning center: Finite

6	7	8	9	10	11

Find the missing numbers:

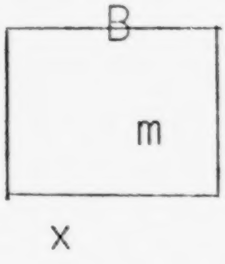
(2,4) (4,6) (6,8) (8,10) (10,12) (12,14)

$\frac{\quad}{3}$

S 10 Name the points **inside** the square: m

Name the points **on** the square: B

Name the points **outside** the square: x



$\frac{\quad}{3}$

S 11 Tell if the set is **finite** or **infinite**:

1. Number greater than 10: inFinite
2. The students in 3-4 learning center: Finite
3. All the shapes that can be drawn: Finite

$\frac{\quad}{3}$

Name____________________________

Team____________________________

Teacher__________________________

Date____________________________

FORM A or B (Circle one)

PLACE VALUE

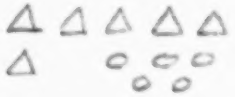
	Pre-Test	Program	Post-Test	Comment
P.V. 1 Concept of 10	___ 6		___ 6	
P.V. 2 Comparisons Renaming 1's, 10's. 100's	___ 6		___ 6	
P.V. 3 Comparisons Renaming 1000's, 10,000's, 100,000	___ 6		___ 6	
P.V. 4 Renaming millions and billions	___ 7		___ 7	
P.V. 5 Writing numbers 1 to 1 million	___ 6		___ 6	
Supplementary Work				
Supplementary Work				

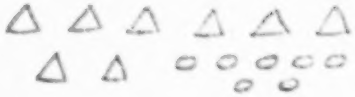
Name______________
Team ______________
Teacher ______________
Date ______________

PLACE VALUE PRE-TEST FORM A

PV 1 1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one





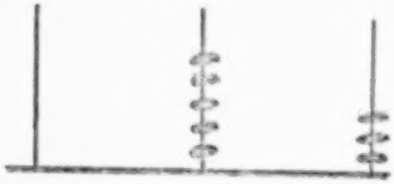
___tens___ones ___tens___ones

2. Draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

3 tens 6 ones 9 tens 0 ones

3. Look at the abacus. Tell how many ones and how many tens:



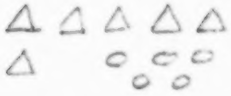
ones ______

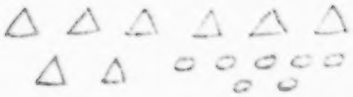
tens ______

4. Draw 5 ones and 3 tens on the abacus:

PV 1 1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one





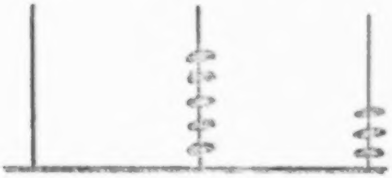
___tens___ones ___tens___ones

2. Draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

3 tens 6 ones 9 tens 0 ones

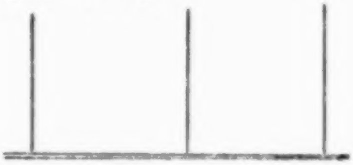
3. Look at the abacus. Tell how many ones and how many tens:



ones ______

tens ______

4. Draw 5 ones and 3 tens on the abacus:



___
6

PV 2 1. Rename the numbers:

5 tens 3 ones ______

2 hundreds 7 tens 3 ones ______

PV 2 cont'd.

2. Write the number 100 more than 534:

______

3. Circle the correct answer:

Which number is larger?

766 676 677 767 678

Which number is smaller?

355 354 345 353 343

4. How many cents in five dollars, six dimes, and seven pennies?

______

___ 6

PV 3

1. Rename the numbers:

7,638= ___ thousands
___ hundreds
___ tens
___ ones

41,078 ___ ten-thousand
___ thousands
___ hundreds
tens

3. Circle the correct answer:

Which number is larger?

766 676 677 767 678

Which number is smaller?

355 354 345 353 343

4. How many cents in five dollars, six dimes, and seven pennies?

6

PV 3

1. Rename the numbers:

7,638= ___thousands
___ hundreds
___ tens
___ ones

41,078 ___ten-thousand
___ thousands
___ hundreds
___ tens
___ ones

2. Write the number 10,000 more than 343,869:

PV 3 cont'd.

3. Circle the correct answer:

Which number is larger?

6,345 5,364 3,456 6,534 6,454

Which number is larger?

93,654 94,546 95,463 96,534 93,645

4. The family drove 15,361 miles on their vacation. Tell how many

ones ____ hundreds ____ thousands ____

tens ____ ten-thousands ____

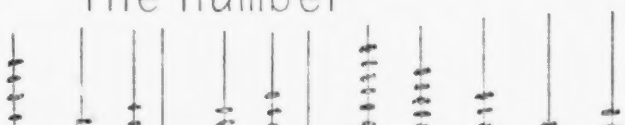
--- 6

PV 4

1. Rename these numbers:

billions	millions	thousands	ones	
49	168	12	141	__________
3	205	200	103	__________

2. Look at the abacus and rename the number



____

6,345 5,364 3,456 6,534 6,454

______

Which number is larger?

93,654 94,546 95,463 96,534 93,645

______

4. The family drove 15,361 miles on their vacation. Tell how many

ones ____ hundreds____ thousands ____

tens____ ten-thousands ____

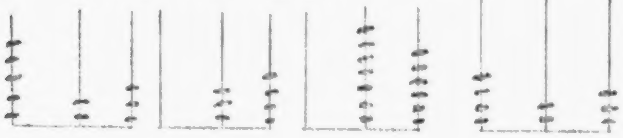
___
6

PV 4

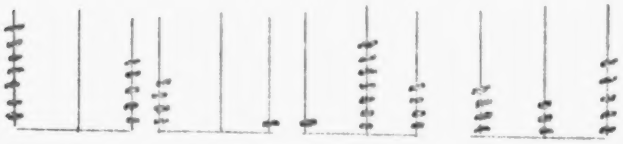
1. Rename these numbers:

billions	millions	thousands	ones	
49	168	12	141	__________
3	205	200	103	__________

2. Look at the abacus and rename the number



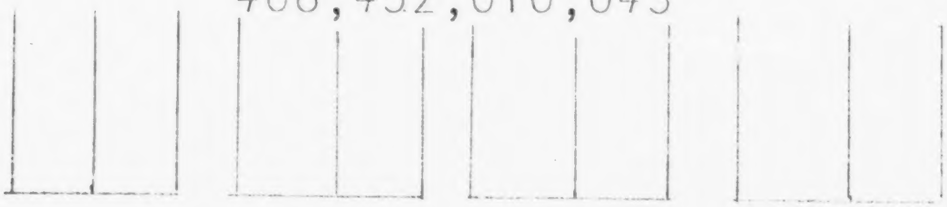
____



____

3. Show this number on the abacus:

406,452,010,043



PV 4 cont'd.

4. Write a compact numeral for:

four-million, thirty-two thousand, six hundred fifty-one:

____

five-million, three hundred four thousand, two hundred ninety-four:

____

___
6

PV 5

Your teacher will read 6 numbers for you to write:

____

____

____

____

____

____

___

KEY

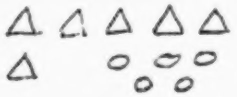
Name ____________
Team ____________
Teacher ____________
Date ____________

PLACE VALUE PRE-TEST FORM A

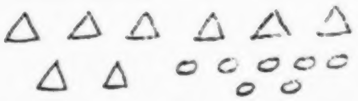
PV I

1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one



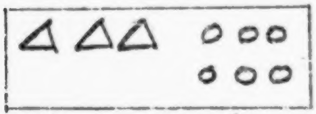
_6_ tens _5_ ones



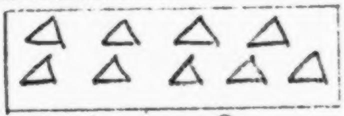
_8_ tens _7_ ones

2. Draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

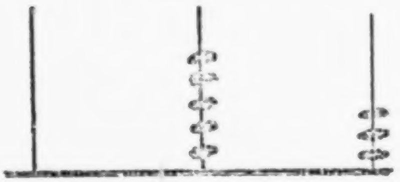


3 tens 6 ones



9 tens 0 ones

3. Look at the abacus. Tell how many ones and how many tens:

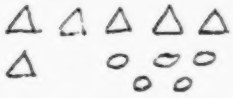


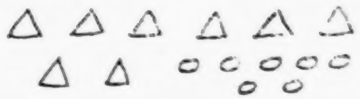
ones _3_
tens _5_

4. Draw 5 ones and 3 tens on the

PV 1 1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one

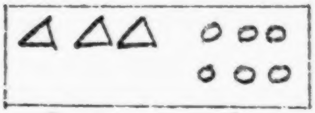


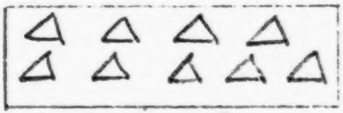


6 tens 5 ones 8 tens 7 ones

2. Draw the number of ones and tens in the boxes below:

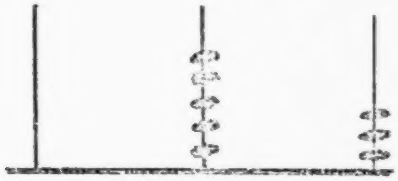
KEY: △ = ten 0 = one





3 tens 6 ones 9 tens 0 ones

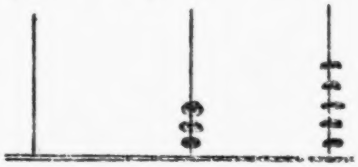
3. Look at the abacus. Tell how many ones and how many tens:



ones 3

tens 5

4. Draw 5 ones and 3 tens on the abacus:



6

PV 2 1. Rename the numbers:

5 tens 3 ones 53

2 hundreds 7 tens 3 ones 273

PLACE VALUE PRE-TEST FORM A

PV 2 cont'd.

2. Write the number 100 more than 534:

634

3. Circle the correct answer:

Which number is larger?

766 676 677 [✓ 767] 678

Which number is smaller?

355 354 345 353 [✓ 343]

4. How many cents in five dollars, six dimes, and seven pennies?

567

6

PV 3

1. Rename the numbers:

7,638 = 7 thousands
6 hundreds
3 tens
8 ones

41,078 ____ ten-thousand
1 thousands
0 hundreds

3. Circle the correct answer:

Which number is larger?

766 676 677 [✓ 767] 678

Which number is smaller?

355 354 345 353 [✓ 343]

4. How many cents in five dollars, six dimes, and seven pennies?

__567__

6

PV 3

1. Rename the numbers:

7,638 = __7__ thousands
__6__ hundreds
__3__ tens
__8__ ones

41,078 ____ ten-thousand
__1__ thousands
__0__ hundreds
__7__ tens
__8__ ones

2. Write the number 10,000 more than 343,869:

__353,869__

PLACE VALUE PRE-TEST FORM A

PV 3 cont'd.

3. Circle the correct answer:

Which number is larger?

6,345 5,364 3,456 [✓ 6,534] 6,454

Which number is larger?

93,654 94,546 95,463 [✓ 96,534] 93,645

4. The family drove 15,361 miles on their vacation. Tell how many

ones _1_ hundreds _3_ thousands _5_

tens _6_ ten-thousands _1_

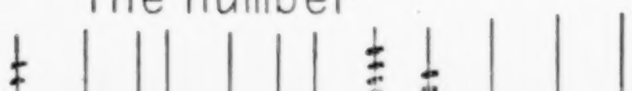
6

PV 4

1. Rename these numbers:

billions	millions	thousands	ones	
49	168	12	141	49,168,012,141.
3	205	200	103	3,205,200,103.

2. Look at the abacus and rename the number



6,345 5,364 3,456 [✓ 6,534] 6,454

Which number is larger?

93,654 94,546 95,463 [✓ 96,534] 93,645

4. The family drove 15,361 miles on their vacation. Tell how many

ones 1 hundreds 3 thousands 5

tens 6 ten-thousands 1

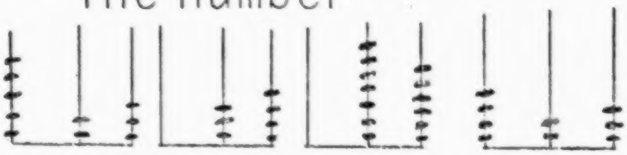
6

PV 4

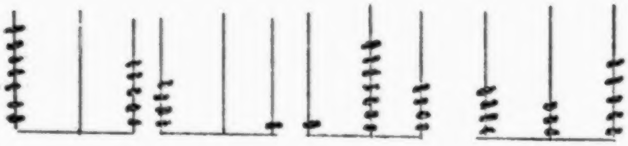
1. Rename these numbers:

billions	millions	thousands	ones	
49	168	12	141	49,168,012,141
3	205	200	103	3,205,200,103

2. Look at the abacus and rename the number



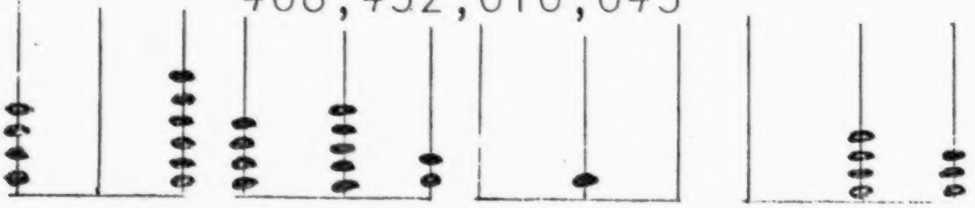
523,034,076,423



705,404,174,435

3. Show this number on the abacus:

406,452,010,043



PV 4 cont'd.	4. Write a compact numeral for:
	four-million, thirty-two thousand, six hundred fifty-one:
	4,032,651________
	five-million, three hundred four thousand, two hundred ninety-four:
	5,304,294________
___ 6	
PV 5	Your teacher will read 6 numbers for you to write:
	_______________
	_______________
	_______________
	_______________
	_______________
	_______________

Name__________
Team _
Teacher __________
Date ________________

PLACE VALUE POST-TEST FORM A

PV 1

1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one

△ △ △ △ △
○○○

___ tens ___ one

△ △ △ △ △ △ △ △ △
○ ○ ○ ○ ○

___ tens ___ ones

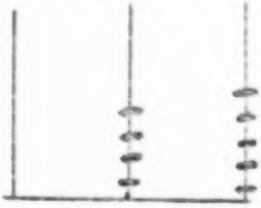
2. Now you draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

5 tens 3 ones

7 tens 0 ones

3. Look at the abacus and tell how many ones and how many tens:



______ ones

______ tens

4. Draw 4 ones and 7 tens on the

PV 1 1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one

△ △ △ △ △
○ ○ ○

△ △ △ △ △ △ △ △ △
○ ○ ○ ○ ○

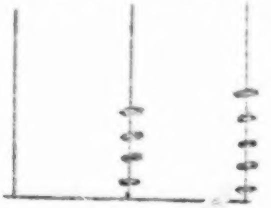
___ tens ___ one ___ tens ___ ones

2. Now you draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

5 tens 3 ones 7 tens 0 ones

3. Look at the abacus and tell how many ones and how many tens:



______ ones

______ tens

4. Draw 4 ones and 7 tens on the abacus:

___
6

PV 2 1. Rename the numbers:

6 tens 2 ones ________

4 hundreds 3 tens 8 ones ________

PV 2 (cont'd)

2. Write the number 100 more than 345: ______

3. Circle the answer that shows which number is larger:

767, 676, 766, 677, 678

Which number is smaller:

345, 354, 353, 343, 355

4. Fred saved $5.67.

Show: How many dimes __________
How many pennies _______
How many dollars _______

___
6

PV 3

1. Rename the numbers:

9,354 = __ thousands
__ hundreds
__ tens
__ ones

87,508 = __ ten-thousand
__ thousands
__ hundreds
__ tens
__ ones

2. Write the number 10,000 more than

which number is larger:

767, 676, 766, 677, 678

Which number is smaller:

345, 354, 353, 343, 355

4. Fred saved $5.67.

Show: How many dimes __________
How many pennies _______
How many dollars _______

___
6

PV 3

1. Rename the numbers:

9,354 = __ thousands
__ hundreds
__ tens
__ ones

87,508 = __ ten-thousand
__ thousands
__ hundreds
__ tens
__ ones

2. Write the number 10,000 more than 434,569: ________

3. Circle the right answer:

Which number is larger?

6,454 6,345 6,534 5,364 3,456

Which number is smaller?

93,654 95,463 94,546 93,645 96,534

PV 3 (cont'd)

4. Bob had six dimes, nine pennies and three dollars. Show how much money he had:

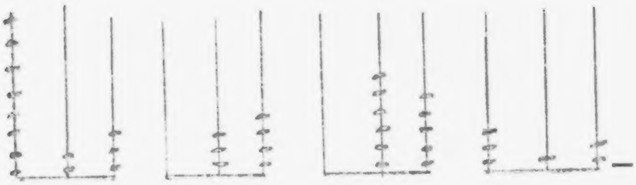
6

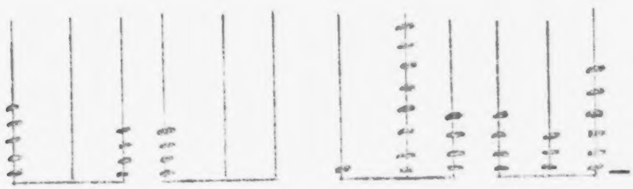
PV 4

1. Rename these numbers:

Billions	Millions	Thousands	Ones	
66	49	2	141	
3	205	103	200	

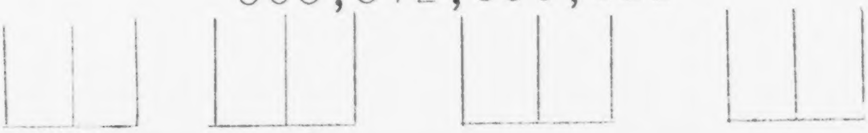
2. Look at the abacus and rename the number:





3. Show this number on the abacus:

506,342,030,022

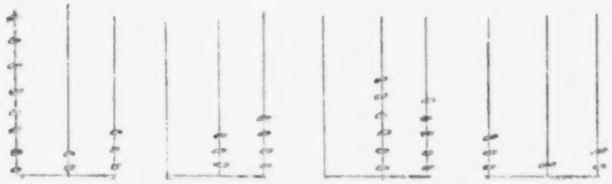


PV 4

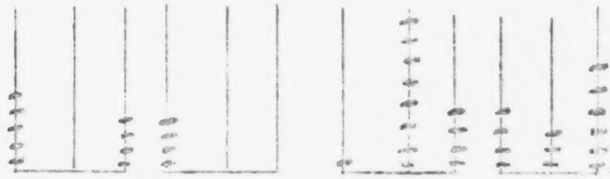
1. Rename these numbers:

Billions	Millions	Thousands	Ones	
66	49	2	141	
3	205	103	200	

2. Look at the abacus and rename the number:



____



____

3. Show this number on the abacus:

506,342,030,022

4. Write a compact numerals for:

two-hundred eighty-
three thousand, four
hundred twenty-six: ____________

seven million, three
hundred fifty thousand,
four hundred twenty-one:

____

PV 5 Your teacher will read 6 numbers for you to write:

____

____

____

____

____

____

___
6

KEY

Name
Team
Teacher
Date

PLACE VALUE POST-TEST FORM A

PV I

1. For each set, write the number of ones and tens shown:

KEY: △ = ten 0 = one

△ △ △ △ △
o o o
5 tens 3 one

△ △ △ △ △ △ △ △ △
o o o o o
9 tens 5 ones

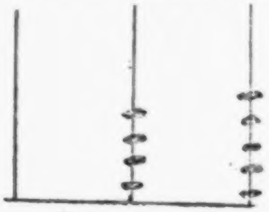
2. Now you draw the number of ones and tens in the boxes below:

KEY: △ = ten 0 = one

△ △ △ △ △
o o o
5 tens 3 ones

△ △ △ △
△ △ △
7 tens 0 ones

3. Look at the abacus and tell how many ones and how many tens:



5 ones

4 tens

4. Draw 4 ones and 7 tens on the

PV 1

1. For each set, write the number of ones and tens shown:

KEY: △ = ten   0 = one

△ △ △ △ △
○○○

_5_ tens _3_ one

△ △ △ △ △ △ △ △ △
○○○○○

_9_ tens _5_ ones

2. Now you draw the number of ones and tens in the boxes below:

KEY: △ = ten   0 = one

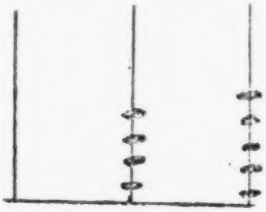
△ △ △ △ △
○ ○ ○

5 tens 3 ones

△ △ △ △
△ △ △

7 tens 0 ones

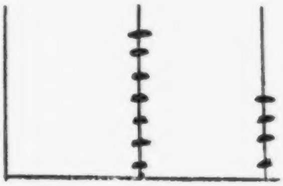
3. Look at the abacus and tell how many ones and how many tens:



_5_ ones

_4_ tens

4. Draw 4 ones and 7 tens on the abacus:



___
6

PV 2

1. Rename the numbers:

6 tens 2 ones _62_

4 hundreds 3 tens 8 ones _438_

PV 2 (cont'd)

2. Write the number 100 more than 345: 445

3. Circle the answer that shows which number is larger:

[✓ 767], 676, 766, 677, 678

Which number is smaller:

345, 354, 353, [✓ 343], 355

4. Fred saved $5.67.

Show: How many dimes 6
How many pennies 7
How many dollars 5

___
6

PV 3

1. Rename the numbers:

9,354 = 9 thousands
3 hundreds
50 tens
4 ones

87,508 = 8 ten-thousand
7 thousands
5 hundreds
0 tens
8 ones

3. Circle the answer that shows which number is larger:

[✓ 767], 676, 766, 677, 678

Which number is smaller:

345, 354, 353, [✓ 343], 355

4. Fred saved $5.67.

Show: How many dimes 6
How many pennies 7
How many dollars 5

6

PV 3

1. Rename the numbers:

9,354 = 9 thousands
3 hundreds
50 tens
4 ones

87,508 = 8 ten-thousand
7 thousands
5 hundreds
0 tens
8 ones

2. Write the number 10,000 more than 434,569: 444,569

3. Circle the right answer:

Which number is larger?

6,454 6,345 [✓ 6,534] 5,364 3,456

Which number is smaller?

93,654 95,463 94,546 [✓ 93,645] 96,534

PV 3 (cont'd)

4. Bob had six dimes, nine pennies and three dollars. Show how much money he had:

$3.69

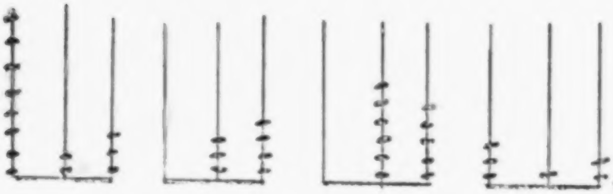
6

PV 4

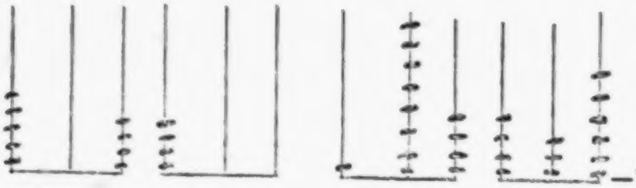
1. Rename these numbers:

Billions	Millions	Thousands	Ones	
66	49	2	141	66,049,002,14
3	205	103	200	3,205,103,200

2. Look at the abacus and rename the number:



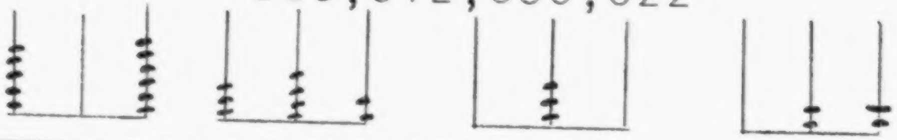
823,034,065,312



504,400,184,436

3. Show this number on the abacus:

506,342,030,022



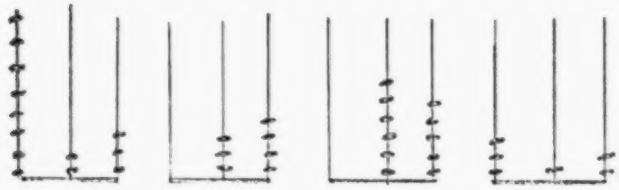
4. Write a compact⁺ numerals for:

PV 4

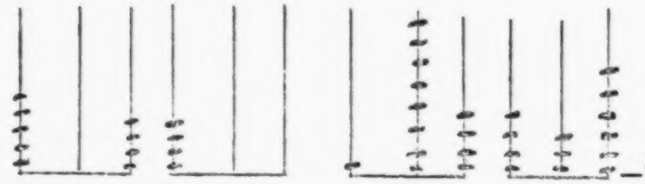
1. Rename these numbers:

Billions	Millions	Thousands	Ones	
66	49	2	141	66,049,002,14
3	205	103	200	3,205,103,20

2. Look at the abacus and rename the number:



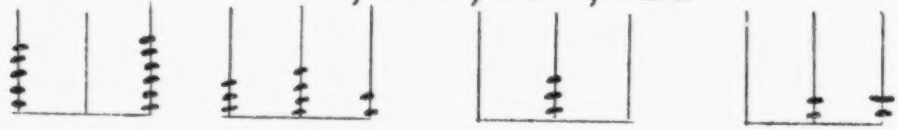
823,034,065,312



504,400,184,436

3. Show this number on the abacus:

506,342,030,022



4. Write a compact numerals for:

two-hundred eighty-three thousand, four hundred twenty-six: 283,426

seven million, three hundred fifty thousand, four hundred twenty-one:

7,350,421

PV 5

Your teacher will read 6 numbers for you to write:

____

____

____

____

____

____

6

Name___________________

Team___________________

Teacher___________________

Date___________________

FORM A or B (Circle one)

ADDITION - SUBSTRACTION

	Pre-Test	Program	Post-Test	Comment
A-S 1 Family of Facts	___ 4		___ 4	
A-S 2 Add - Subtract Facts to 10	___ 30		___ 30	
A-S 3 3 Addends, Facts less than 10	___ 4		___ 4	
A-S 4 Add-Subtract Facts thru 20	___ 30		___ 30	
A-S 5 2 Addends, plus one, with regrouping	___ 4		___ 4	
A-S 6 Add-Subtract 10's with zero's	___ 4		___ 4	
A-S 7 Add- Sub. 2 Addends + 2 without regrouping	___ 4		___ 4	
A-S 8 3 digit Add & Sub. without regrouping	___ 4		___ 4	
A-S 9 2 Addends plus 2 with regrouping	___ 4		___ 4	
A-S 10 Sub. 2 digits from 2 digits with regrouping	___ 4		___ 4	
A-S 11 Add 3 Addends plus 3 with regrouping	___ 4		___ 4	

A-S 1 Family of Facts	4		4	
A-S 2 Add - Subtract Facts to 10	30		30	
A-S 3 3 Addends, Facts less than 10	4		4	
A-S 4 Add-Subtract Facts thru 20	30		30	
A-S 5 2 Addends, plus one, with regrouping	4		4	
A-S 6 Add-Subtract 10's with zero's	4		4	
A-S 7 Add- Sub. 2 Addends + 2 without regrouping	4		4	
A-S 8 3 digit Add & Sub. without regrouping	4		4	
A-S 9 2 Addends plus 2 with regrouping	4		4	
A-S 10 Sub. 2 digits from 2 digits with regrouping	4		4	
A-S 11 Add 3 Addends plus 3 with regrouping	4		4	
A-S 12 Sub. 3 digits from 3 digits with regrouping	4		4	
A-S 13 Equalities and inequalities signs	4		4	
A-S 14 Number lines Associative properties	4		4	
A-S 15 Money - Add,Sub with regrouping	4		4	
A-S 16 Bases	4		4	

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

ADDITION-SUBTRACTION PRE-TEST FORM A

AS 1 write a family of facts for this set of two addends and a sum:

(4, 2, 6)

4

AS 2 Watch the signs!!

5	9	4	5	3	8
+3	+1	+5	+2	+7	+2
4	3	8	10	5	6
+3	+1	+1	+0	+1	+2
3	2	10	8	9	10
+2	+7	-8	-5	-4	-2
7	8	8	5	6	8
-2	-6	-4	-3	-3	-2

AS 1

write a family of facts for this set of two addends and a sum:

(4, 2, 6)

4

AS 2

Watch the signs!!

5 +3	9 +1	4 +5	5 +2	3 +7	8 +2
4 +3	3 +1	8 +1	10 +0	5 +1	6 +2
3 +2	2 +7	10 -8	8 -5	9 -4	10 -2
7 -2	8 -6	8 -4	5 -3	6 -3	8 -2
4 -3	3 -1	9 -3	9 -2	7 -4	6 -2

30

AS 3

3 4 +1	5 2 +3	2 1 +4	1 6 +2

4

AS 4

Watch the signs!!

$\begin{array}{r}7\\+6\\\hline\end{array}$	$\begin{array}{r}8\\+4\\\hline\end{array}$	$\begin{array}{r}8\\+7\\\hline\end{array}$	$\begin{array}{r}5\\+8\\\hline\end{array}$	$\begin{array}{r}7\\+4\\\hline\end{array}$	$\begin{array}{r}6\\+6\\\hline\end{array}$
$\begin{array}{r}8\\+8\\\hline\end{array}$	$\begin{array}{r}9\\+2\\\hline\end{array}$	$\begin{array}{r}9\\+7\\\hline\end{array}$	$\begin{array}{r}8\\+6\\\hline\end{array}$	$\begin{array}{r}9\\+8\\\hline\end{array}$	$\begin{array}{r}7\\+5\\\hline\end{array}$
$\begin{array}{r}9\\+9\\\hline\end{array}$	$\begin{array}{r}5\\+9\\\hline\end{array}$	$\begin{array}{r}6\\+5\\\hline\end{array}$	$\begin{array}{r}12\\-3\\\hline\end{array}$	$\begin{array}{r}14\\-7\\\hline\end{array}$	$\begin{array}{r}16\\-7\\\hline\end{array}$
$\begin{array}{r}15\\-6\\\hline\end{array}$	$\begin{array}{r}12\\-6\\\hline\end{array}$	$\begin{array}{r}17\\-8\\\hline\end{array}$	$\begin{array}{r}14\\-5\\\hline\end{array}$	$\begin{array}{r}12\\-8\\\hline\end{array}$	$\begin{array}{r}18\\-9\\\hline\end{array}$
$\begin{array}{r}13\\-6\\\hline\end{array}$	$\begin{array}{r}14\\-6\\\hline\end{array}$	$\begin{array}{r}15\\-7\\\hline\end{array}$	$\begin{array}{r}12\\-5\\\hline\end{array}$	$\begin{array}{r}11\\-4\\\hline\end{array}$	$\begin{array}{r}12\\-7\\\hline\end{array}$

____
30

AS 5

$\begin{array}{r}16\\+2\\\hline\end{array}$	$\begin{array}{r}82\\+7\\\hline\end{array}$	$\begin{array}{r}65\\-4\\\hline\end{array}$	$\begin{array}{r}47\\-3\\\hline\end{array}$

____
4

AS 6

$\begin{array}{r}20\\+10\\\hline\end{array}$	$\begin{array}{r}40\\+50\\\hline\end{array}$	$\begin{array}{r}30\\-20\\\hline\end{array}$	$\begin{array}{r}60\\-40\\\hline\end{array}$

____
4

	8 +8	9 +2	9 +7	8 +6	9 +8	7 +5
	9 +9	5 +9	6 +5	12 -3	14 -7	16 -7
	15 -6	12 -6	17 -8	14 -5	12 -8	18 -9
---- 30	13 -6	14 -6	15 -7	12 -5	11 -4	12 -7
AS 5 ---- 4	16 +2		82 +7		65 -4	47 -3
AS 6 ---- 4	20 +10		40 +50		30 -20	60 -40
AS 7 ---- 4	51 +43		12 +85		29 -21	78 -25
AS 8 ---- 4	576 +223		527 +342		875 -432	249 -128

AS 9 ---- 4	38 +23	45 +37	16 +27	26 +64
AS 10 ---- 4	40 -13	61 -36	72 -28	45 -27
AS 11 ---- 4	357 +234	427 +348	755 +466	457 +888
AS 12 ---- 4	425 -266	711 -299	341 -262	320 -283

AS 13 For each sentence, write T or F to show if it is True or False:

$3 + 7 = 0$ ________

$5+2+4 < 3+6+2$ ________

Use =, >, or <, and other symbols (+ or -) to write the number sentences:

5+3 is greater than 7 ________

The sum of 9+5 is 14

AS 10

$$\begin{array}{r} 40 \\ -13 \\ \hline \end{array} \qquad \begin{array}{r} 61 \\ -36 \\ \hline \end{array} \qquad \begin{array}{r} 72 \\ -28 \\ \hline \end{array} \qquad \begin{array}{r} 45 \\ -27 \\ \hline \end{array}$$

$\frac{}{4}$

AS 11

$$\begin{array}{r} 357 \\ +234 \\ \hline \end{array} \qquad \begin{array}{r} 427 \\ +348 \\ \hline \end{array} \qquad \begin{array}{r} 755 \\ +466 \\ \hline \end{array} \qquad \begin{array}{r} 457 \\ +888 \\ \hline \end{array}$$

$\frac{}{4}$

AS 12

$$\begin{array}{r} 425 \\ -266 \\ \hline \end{array} \qquad \begin{array}{r} 711 \\ -299 \\ \hline \end{array} \qquad \begin{array}{r} 341 \\ -262 \\ \hline \end{array} \qquad \begin{array}{r} 320 \\ -283 \\ \hline \end{array}$$

$\frac{}{4}$

AS 13 For each sentence, write T or F to show if it is True or False:

$3 + 7 = 0$ ________

$5+2+4 < 3+6+2$ ________

Use =, >, or <, and other symbols (+ or -) to write the number sentences:

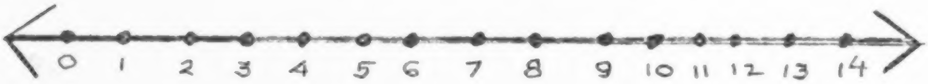
5+3 is greater than 7 ________

The sum of 9+5 is 14 ________

$\frac{}{4}$

AS 14 Show each pair of equations on the number line:

$7 + 5 = 12$ $\qquad$ $5 + 7 = 12$



AS 14

Complete the equations:

5 + 7 = 5+ (3+4)
=(5+__)+4
= ___ + 4
+ 12

12+3=(10+2) + 3
=10+1 (__ +3)
=10 + ___
=____

4

AS 15

Watch the signs!!

$ .75	$4.78	$3.25	$6.07
+ .49	+3.89	-1.96	- .89

4

AS 16

Base 5

4	13	34	433
+2	+ 2	+22	+344

4

KEY

Name ____________
Team ____________
Teacher ____________
Date ____________

ADDITION-SUBTRACTION PRE-TEST FORM A

AS 1 write a family of facts for this set of two addends and a sum:

(4, 2, 6)

4+2=6

2+4=6

6-4=2

6-2=4

4

AS 2 Watch the signs!!

5	9	4	5	3	8
+3	+1	+5	+2	+7	+2
8	10	9	7	10	10
4	3	8	10	5	6
+3	+1	+1	+0	+1	+2
7	4	9	10	6	8
3	2	10	8	9	10
+2	+7	-8	-5	-4	-2
5	9	2	3	5	8

AS 1 write a family of facts for this set of two addends and a sum:

(4, 2, 6)

4+2=6

2+4=6

6-4=2

6=2=4

4

AS 2 Watch the signs!!

5	9	4	5	3	8
+3	+1	+5	+2	+7	+2
8	10	9	7	10	10

4	3	8	10	5	6
+3	+1	+1	+0	+1	+2
7	4	9	10	6	8

3	2	10	8	9	10
+2	+7	-8	-5	-4	-2
5	9	2	3	5	8

7	8	8	5	6	8
-2	-6	-4	-3	-3	-2
5	2	4	2	3	6

4	3	9	9	7	6
-3	-1	-3	-2	-4	-2
1	2	6	7	3	4

30

AS 3

3	5	2	1
4	2	1	6
+1	+3	+4	+2
8	10	7	9

4

AS 4	Watch the signs!!					
	7	8	8	5	7	6
	+6	+4	+7	+8	+4	+6
	13	12	15	13	11	12
	8	9	9	8	9	7
	+8	+2	+7	+6	+8	+5
	16	11	16	14	17	12
	9	5	6	12	14	16
	+9	+9	+5	-3	-7	-7
	18	14	11	9	7	9
	15	12	17	14	12	18
	-6	-6	-8	-5	-8	-9
	9	6	9	9	4	9
	13	14	15	12	11	12
	-6	-6	-7	-5	-4	-7
---- 30	7	8	8	7	7	5

AS 5	16	82	65	47
	+2	+7	-4	-3
---- 4	18	89	61	44

AS 6	20	40	30	60
	+10	+50	-20	-40
---- 4	30	90	10	20

AS 7	51	12	29	78
	+43	+85	-21	-25

	+8	+2	+7	+6	+8	+5
	16	11	16	14	17	12
	9	5	6	12	14	16
	+9	+9	+5	-3	-7	-7
	18	14	11	9	7	9
	15	12	17	14	12	18
	-6	-6	-8	-5	-8	-9
	9	6	9	9	4	9
	13	14	15	12	11	12
----	-6	-6	-7	-5	-4	-7
30	7	8	8	7	7	5

AS 5	16	82	65	47
	+2	+7	-4	-3
---- 4	18	89	61	44
AS 6	20	40	30	60
	+10	+50	-20	-40
---- 4	30	90	10	20
AS 7	51	12	29	78
	+43	+85	-21	-25
---- 4	94	97	8	53
AS 8	576	527	875	249
	+223	+342	-432	-128
	799	869	443	121
---- 4				

AS 9 ---- 4	38 +23 61	45 +37 82	16 +27 43	26 +64 90
AS 10 ---- 4	40 -13 27	61 -36 25	72 -28 44	45 -27 18
AS 11 ---- 4	357 +234 591	427 +348 775	755 +466 1,221	457 +888 1,345
AS 12 ---- 4	425 -266 159	711 -299 412	341 -262 79	320 -283 37

AS 13 For each sentence, write T or F to show if it is True or False:

3 + 7 = 0 __T____
5+2+4 < 3+6+ 2 __F____

Use =, >, or <, and other symbols (+ or -) to write the number sentences:

5+3 is greater than 7 5+3>7

The sum of 9+5 is 14

	-13	-36	-28	-27
	27	25	44	18
---- 4				

AS 11	357	427	755	457
	+234	+348	+466	+888
	591	775	1,221	1,345
---- 4				

AS 12	425	711	341	320
	-266	-299	-262	-283
	159	412	79	37
---- 4				

AS 13 For each sentence, write T or F to show if it is True or False:

$3 + 7 = 0$ T

$5+2+4 < 3+6+2$ F

Use =, >, or <, and other symbols (+ or -) to write the number sentences:

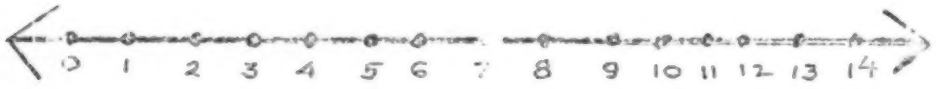
5+3 is greater than 7 $5+3>7$

The sum of 9+5 is 14 $9+5=14$

---- 4

AS 14 Show each pair of equations on the number line:

$7 + 5 = 12$ $5 + 7 = 12$



AS 14 Complete the equations:

5 + 7 = 5+ (3+4)
= (5+ 3)+4
= 8 + 4
+ 12

12+3=(10+2) + 3
=10+1 (1 +3)
=10 + 5
= 15

____
4

AS 15 Watch the signs!!

$ .75	$4.78	$3.25	$6.07
+ .49	+3.89	-1.96	- .89
$1.24	$8.67	$1.29	$5.18

____
4

AS 16 Base 5

4	13	34	433
+2	+ 2	+22	+344
6	15	56	777

____
4

Name____
Team
Teacher__________________
Date____

ADDITION-SUBTRACTION POST-TEST FORM A

AS 1 Write a family of facts for this set of two addends and a sum:

{2, 4, 6}

___
4

AS 2 Watch the signs!

5	9	4	5	3	8
+ 3	+ 1	+ 5	+ 2	+ 7	+ 2
4	3	8	10	5	6
+3	+3	+1	+ 0	+1	+ 2
2	3	10	9	8	10
+7	+2	-2	-4	-5	-8

AS 1 Write a family of facts for this set of two addends and a sum:

$$\left\{2,\quad 4,\quad 6\right\}$$

___
4

AS 2 Watch the signs!

5	9	4	5	3	8
+ 3	+ 1	+ 5	+ 2	+ 7	+ 2
4	3	8	10	5	6
+ 3	+ 3	+ 1	+ 0	+ 1	+ 2
2	3	10	9	8	10
+ 7	+ 2	- 2	- 4	- 5	- 8
7	8	8	5	8	6
- 2	- 6	- 4	- 3	- 2	- 3
3	9	9	7	6	4
- 1	- 3	- 2	- 4	- 2	- 3

___
30

AS 3

2	6	5	4
5	1	1	2
+ 2	+ 3	+ 2	+ 3

___
4

ADDITION-SUBTRACTION POST-TEST FORM A

AS 4 Watch the signs!

7 + 6	8 + 4	8 + 7	5 + 8	7 + 4	6 +6
8 +8	9 + 2	9 +7	8 +6	9 +8	7 +5
5 +6	9 +5	9 +9	12 -3	14 - 7	16 -7
15 - 6	12 - 6	17 - 8	14 - 5	12 - 8	18 - 9
13 - 6	14 - 6	15 - 7	12 - 5	11 - 4	12 - 7

30

AS 5

15 + 2	73 + 4	46 - 3	59 - 4

4

AS 6

30 + 60	20 + 70	60 - 20	30 - 30

4

AS 7

49 +20	33 +13	87 -33	47 -26

8	9	9	8	9	7
+8	+2	+7	+6	+8	+5
5	9	9	12	14	16
+6	+5	+9	-3	-7	-7
15	12	17	14	12	~~18~~
-6	-6	-8	-5	-8	-9
13	14	15	12	11	12
-6	-6	-7	-5	-4	-7

30

AS 5	15	73	46	59
	+2	+4	-3	-4

4

AS 6	30	20	60	30
	+60	+70	-20	-30

4

AS 7	49	33	87	47
	+20	+13	-33	-26

4

AS 8	125	262	659	968
	+343	+231	-357	-532

4

AS 9	27	26	53	57
	+58	+18	+39	+36

4

AS 10	50	64	85	36
	-16	-39	-48	-27

ADDITION-SUBTRACTION POST-TEST FORM A

AS 11	367	257	458	395
	+ 459	+ 476	+366	+807
--- 4				
AS 12	413	645	602	1000
	-237	-149	-573	-347
--- 4				

AS 13 For each sentence, write T or F to show if it is True or False:

① 7 + 2 = 0 Answer: ______

② 2+3+6 < 2+4+5 Answer: ______

Use =, >, or < and other symbols (+ or -) to write the number sentences:

① 6 and 3 is greater than 7:

Answer: ______

② The sum of 10 and 35 is 45:

Answer: ______

4

AS 14 Show each pair of equations on the number line:

7 + 4 = 11 4 + 7 = 11

AS 12	413	645	602	1000
	-237	-149	-573	-347

4

AS 13 For each sentence, write T or F to show if it is True or False:

(1.) 7 + 2 = 0 Answer: ______

(2.) 2+3+6 < 2+4+5 Answer: ______

Use =, >, or < and other symbols (+ or -) to write the number sentences:

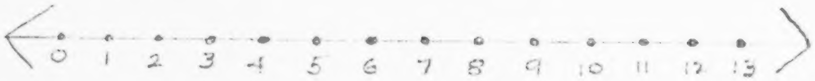
(1.) 6 and 3 is greater than 7: Answer: ______

(2.) The sum of 10 and 35 is 45: Answer: ______

4

AS 14 Show each pair of equations on the number line:

7 + 4 = 11   4 + 7 = 11



Complete the equations:

4+3 = 4+ (2+1)   23+5 = (20+3)+5
= (4+ __) +1   = 20+ (__ + 5)
= __ +1   = 20+ __
= __   = __

4

AS 15	$.95	$4.52	$2.44	$2.08
	+.05	+3.39	-1.95	- .79

ADDITION-SUBTRACTION POST-TEST FORM A

AS 16	Base 5	4 + 3	13 + 2	22 +34	434 +344
--- 4					

KEY

Name ____________
Team ____________
Teacher ____________
Date ____________

ADDITION-SUBTRACTION POST-TEST FORM A

AS 1 Write a family of facts for this set of two addends and a sum:

$\{2, \quad 4, \quad 6\}$

2 + 4 = 6

4 + 2 = 6

6 − 4 = 2

6 − 2 = 4

___
4

AS 2 Watch the signs!

5	9	4	5	3	8
+ 3	+ 1	+ 5	+ 2	+ 7	+ 2
8	10	9	7	10	10
4	3	8	10	5	6
+ 3	+ 3	+ 1	+ 0	+ 1	+ 2
7	6	9	10	6	8
2	3	10	9	8	10

AS 1 Write a family of facts for this set of two addends and a sum:

{2, 4, 6}

2 + 4 = 6

4 + 2 = 6

6 − 4 = 2

6 − 2 = 4

4

AS 2 Watch the signs!

5	9	4	5	3	8
+ 3	+ 1	+ 5	+ 2	+ 7	+ 2
8	10	9	7	10	10
4	3	8	10	5	6
+ 3	+ 3	+ 1	+ 0	+ 1	+ 2
7	6	9	10	6	8
2	3	10	9	8	10
+ 7	+ 2	− 2	− 4	− 5	− 8
9	5	8	5	3	2
7	8	8	5	8	6
− 2	− 6	− 4	− 3	− 2	− 3
5	2	4	2	6	3
3	9	9	7	6	4
− 1	− 3	− 2	− 4	− 2	− 3
2	6	7	3	4	1

30

AS 3

2	6	5	4
5	1	1	2
+ 2	+ 3	+ 2	+ 3
9	10	8	9

4

ADDITION-SUBTRACTION POST-TEST FORM A

AS 4 Watch the signs!

$$\begin{array}{r}7\\+6\\\hline 13\end{array}\quad\begin{array}{r}8\\+4\\\hline 12\end{array}\quad\begin{array}{r}8\\+7\\\hline 15\end{array}\quad\begin{array}{r}5\\+8\\\hline 13\end{array}\quad\begin{array}{r}7\\+4\\\hline 11\end{array}\quad\begin{array}{r}6\\+6\\\hline 12\end{array}$$

$$\begin{array}{r}8\\+8\\\hline 16\end{array}\quad\begin{array}{r}9\\+2\\\hline 11\end{array}\quad\begin{array}{r}9\\+7\\\hline 16\end{array}\quad\begin{array}{r}8\\+6\\\hline 14\end{array}\quad\begin{array}{r}9\\+8\\\hline 17\end{array}\quad\begin{array}{r}7\\+5\\\hline 12\end{array}$$

$$\begin{array}{r}5\\+6\\\hline 11\end{array}\quad\begin{array}{r}9\\+5\\\hline 14\end{array}\quad\begin{array}{r}9\\+9\\\hline 18\end{array}\quad\begin{array}{r}12\\-3\\\hline 9\end{array}\quad\begin{array}{r}14\\-7\\\hline 7\end{array}\quad\begin{array}{r}16\\-7\\\hline 9\end{array}$$

$$\begin{array}{r}15\\-6\\\hline 9\end{array}\quad\begin{array}{r}12\\-6\\\hline 6\end{array}\quad\begin{array}{r}17\\-8\\\hline 9\end{array}\quad\begin{array}{r}14\\-5\\\hline 9\end{array}\quad\begin{array}{r}12\\-8\\\hline 4\end{array}\quad\begin{array}{r}18\\-9\\\hline 9\end{array}$$

$$\begin{array}{r}13\\-6\\\hline 7\end{array}\quad\begin{array}{r}14\\-6\\\hline 8\end{array}\quad\begin{array}{r}15\\-7\\\hline 8\end{array}\quad\begin{array}{r}12\\-5\\\hline 7\end{array}\quad\begin{array}{r}11\\-4\\\hline 7\end{array}\quad\begin{array}{r}12\\-7\\\hline 5\end{array}$$

___
30

AS 5

$$\begin{array}{r}15\\+2\\\hline 17\end{array}\quad\begin{array}{r}73\\+4\\\hline 77\end{array}\quad\begin{array}{r}46\\-3\\\hline 43\end{array}\quad\begin{array}{r}59\\-4\\\hline 55\end{array}$$

___
4

AS 6

$$\begin{array}{r}30\\+60\\\hline 90\end{array}\quad\begin{array}{r}20\\+70\\\hline 90\end{array}\quad\begin{array}{r}60\\-20\\\hline 40\end{array}\quad\begin{array}{r}30\\-30\\\hline 0\end{array}$$

___
4

AS 7

$$\begin{array}{r}49\\+20\\\hline\end{array}\quad\begin{array}{r}33\\+13\\\hline\end{array}\quad\begin{array}{r}87\\-33\\\hline\end{array}\quad\begin{array}{r}47\\-26\\\hline\end{array}$$

	13	12	15	13	11	12
	8	9	9	8	9	7
	+8	+ 2	+7	+6	+8	+5
	16	11	16	14	17	12
	5	9	9	12	14	16
	+6	+5	+9	-3	- 7	-7
	11	14	18	9	7	9
	15	12	17	14	12	18
	- 6	- 6	- 8	- 5	- 8	- 9
	9	6	9	9	4	9
	13	14	15	12	11	12
___	- 6	- 6	- 7	- 5	- 4	- 7
30	7	8	8	7	7	5

AS 5	15	73	46	59
	+ 2	+ 4	- 3	- 4
___ 4	17	77	43	55

AS 6	30	20	60	30
	+ 60	+ 70	- 20	- 30
___ 4	90	90	40	0

AS 7	49	33	87	47
	+20	+13	-33	-26
___ 4	69	46	120	21

AS 8	125	262	659	968
	+343	+ 231	- 357	- 532
___ 4	468	493	302	436

AS 9	27	26	53	57
	+58	+18	+39	+36
___ 4	85	44	92	93

AS 10	50	64	85	36
	-16	-39	-48	-27
	34	25	37	9

ADDITION-SUBTRACTION POST-TEST FORM A

AS 11 --- 4	367 + 459 826	257 + 476 733	458 +366 824	395 +807 1,202
AS 12 --- 4	413 -237 176	645 -149 496	602 -573 29	1000 -347 653

AS 13

For each sentence, write T or F to show if it is True or False:

① 7 + 2 = 0 Answer: F

② 2+3+6 < 2+4+5 Answer: F

Use =, >, or < and other symbols (+ or -) to write the number sentences:

① 6 and 3 is greater than 7:

Answer: 6+3>7

② The sum of 10 and 35 is 45:

Answer: 10+35=4

4

AS 14

Show each pair of equations on the number line:

	-237	-149	-573	-347
--- 4	176	496	29	653

AS 13 For each sentence, write T or F to show if it is True or False:

①. 7 + 2 = 0 Answer: F

②. 2+3+6 < 2+4+5 Answer: F

Use =, >, or < and other symbols (+ or -) to write the number sentences:

①. 6 and 3 is greater than 7:

Answer: 6+3>7

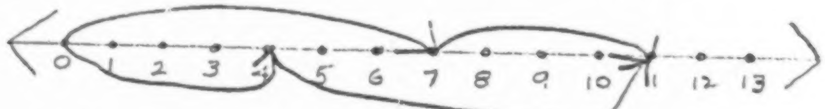
②. The sum of 10 and 35 is 45:

Answer: 10+35=45

4

AS 14 Show each pair of equations on the number line:

7 + 4 = 11 4 + 7 = 11



Complete the equations:

$4+3 = 4+(2+1)$
$=(4+\underline{2})+1$
$=\underline{6}+1$
$=\underline{7}$

$23+5 = (20+3)+5$
$= 20+(\underline{3}+5)$
$= 20+\underline{8}$
$= \underline{28}$

11

AS 15	$.95	$4.52	$2.44	$2.08
	+.05	+3.39	-1.95	- .79
--- 11	$1.00	$7.91	$ .49	$

ADDITION-SUBTRACTION POST-TEST FORM A

AS 16 $\frac{\quad}{4}$	Base 5	$\begin{array}{r} 4 \\ +3 \\ \hline 7 \end{array}$	$\begin{array}{r} 13 \\ +2 \\ \hline 15 \end{array}$	$\begin{array}{r} 22 \\ +34 \\ \hline 56 \end{array}$	$\begin{array}{r} 434 \\ +344 \\ \hline 778 \end{array}$

NAME____________________

TEST__________ DATE__________

TEACHER____________________

FORM A or B (Circle one)

MULTIPLICATION OPERATIONS

	Pre-Test	Program	Post-Test	Comments
M1 Multiplication Facts 1-6	___ 18		___ 18	
M2 Multiplication Facts 7-9	___ 18		___ 18	
M3 1 digit times 2, 3, 4 digits no regrouping	___ 4		___ 4	
M4 One digit times 2, 3, 4 digits with regrouping	___ 4		___ 4	
M5 Two digit times 2, 3, 4 digits with regrouping	___ 4		___ 4	

M1 Multiplication Facts 1-6	— 18		— 18	
M2 Multiplication Facts 7-9	— 18		— 18	
M3 1 digit times 2, 3, 4 digits no regrouping	— 4		— 4	
M4 One digit times 2, 3, 4 digits with regrouping	— 4		— 4	
M5 Two digit times 2, 3, 4 digits with regrouping	— 4		— 4	
M6 Multiply with zeros	— 4		— 4	
M7 Story problems	— 4		— 4	
Supplimentary Works				

2

Name
Team
Teacher
Date

MULTIPLICATION PRE-TEST FORM A

M 1	2 X 2	5 X 4	5 X 3	3 X 4	4 X 2	2 X 3
	5 X 5	5 X 2	6 X 3	3 X 3	6 X 5	6 X 4
	6 X 6	7 X 4	5 X 0	4 X 4	7 X 5	1 X 6
18						
M 2	7 X 3	4 X 8	2 X 9	9 X 9	9 X 5	7 X 7
	6 X 9	9 X 7	5 X 8	6 X 7	8 X 8	3 X 9
	8	8	2	8	2	6

MULTIPLICATION PRE-TEST FORM A

M 1	2 X 2	5 X 4	5 X 3	3 X 4	4 X 2	2 X 3
	5 X 5	5 X 2	6 X 3	3 X 3	6 X 5	6 X 4
	6 X 6	7 X 4	5 X 0	4 X 4	7 X 5	1 X 6
___ 18						
M 2	7 X 3	4 X 8	2 X 9	9 X 9	9 X 5	7 X 7
	6 X 9	9 X 7	5 X 8	6 X 7	8 X 8	3 X 9
	8 X 7	8 X 9	2 X 8	8 X 6	2 X 7	6 X 7
___ 18						

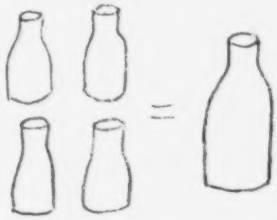
M 3	23 X 2	12 X 4	321 X 3	7896 X 1
___ 4				
M 4	65 X 5	42 X 9	157 X 8	3534 X 7
___ 4				

MULTIPLICATION PRE-TEST FORM A

M 5 4	43 X81	54 X36	629 X 27	5938 X 73
M 6 4	60 X 9	157 X 30	408 X 67	2070 X 302

M 7

If there are 4 quarts in one gallon, there are ______ quarts in 6 gallons?



ANSWER

(Show your work)

Mr. Todd had 270 customers a day. How many customers did he have in 6 days?

ANSWER

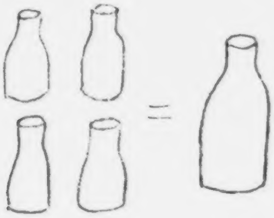
M 6

60	157	408	2070
X 9	X 30	X 67	X 302

4

M 7

If there are 4 quarts in one gallon, there are ______ quarts in 6 gallons?



ANSWER

(Show your work)

Mr. Todd had 270 customers a day. How many customers did he have in 6 days?

ANSWER

(Show your work)

Sally works for Mr. Todd after school. She earns $2.23 each day. How much does Sally earn in 7 days?.

ANSWER

(Show your work)

M 7 cont'd. 4	If there are 365 days in a year, how many days are in 27 years? (Do not count the extra days for leap year). ANSWER (Show your work)

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

MULTIPLICATION PRE-TEST FORM A

M 1	2 X 2 4	5 X 4 20	5 X 3 15	3 X 4 12	4 X 2 8	2 X 3 6
	5 X 5 25	5 X 2 10	6 X 3 18	3 X 3 9	6 X 5 30	6 X 4 24
18	6 X 6 36	7 X 4 28	5 X 0 0	4 X 4 16	7 X 5 35	1 X 6 6
M 2	7 X 3 21	4 X 8 32	2 X 9 18	9 X 9 81	9 X 5 45	7 X 7 49
	6 X 9 54	9 X 7 63	5 X 8 40	6 X 7 42	8 X 8 64	3 X 9 27
	8	8	2 X 8	8 X 6	2 X 7	6 X 7

MULTIPLICATION PRE-TEST FORM A

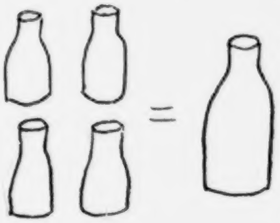
M 1	2 X 2 4	5 X 4 20	5 X 3 15	3 X 4 12	4 X 2 8	2 X 3 6
	5 X 5 25	5 X 2 10	6 X 3 18	3 X 3 9	6 X 5 30	6 X 4 24
18	6 X 6 36	7 X 4 28	5 X 0 0	4 X 4 16	7 X 5 35	1 X 6 6
M 2	7 X 3 21	4 X 8 32	2 X 9 18	9 X 9 81	9 X 5 45	7 X 7 49
	6 X 9 54	9 X 7 63	5 X 8 40	6 X 7 42	8 X 8 64	3 X 9 27
18	8 X 7 56	8 X 9 72	2 X 8 16	8 X 6 48	2 X 7 14	6 X 7 42

M 3 4	23 X 2 46	12 X 4 48	321 X 3 963	7896 X 1 7896
M 4 4	65 X 5 325	42 X 9 378	157 X 8 1,256	3534 X 7 24,738

MULTIPLICATION PRE-TEST FORM A

M 5 4	43 X81 43 344 3,563	54 X36 324 162 2,844	629 X 27 4403 1258 16,983	5938 X 73 17814 41566 433,474
M 6 4	60 X 9 540	157 X 30 4,710	408 X 67 2856 2448 27,336	2070 X 302 4140 62100 625,140

M 7 If there are 4 quarts in one gallon, there are 24 quarts in 6 gallons?



4
× 6
24

(Show your work)

ANSWER

24

Mr. Todd had 270 customers a day. How many customers did he have in 6 days?

270
× 6
1,620

(Show your work)

ANSWER

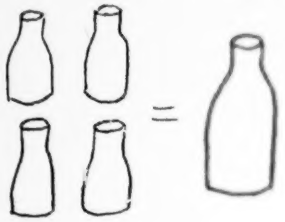
1,620

Sally works for Mr. Todd after school.

M 6	60	157	408	2070
	X 9	X 30	X 67	X 302
	540	4,710	2856	4140
			2448	62100
4			27,336	625,140

M 7

If there are 4 quarts in one gallon, there are 24 quarts in 6 gallons?



4
× 6
24

ANSWER

24

(Show your work)

Mr. Todd had 270 customers a day. How many customers did he have in 6 days?

270
× 6
1,620

ANSWER

1,620

(Show your work)

Sally works for Mr. Todd after school. She earns $2.23 each day. How much does Sally earn in 7 days?

$2.23
× 7
$15.61

ANSWER

15.61

(Show your work)

MULTIPLICATION	PRE-TEST FORM A
M 7 cont'd. 4	If there are 365 days in a year, how many days are in 27 years? (Do not count the extra days for leap year). 365 × 27 2555 730 9,855 (Show your work) ANSWER 9,855

Name________________________
Team________________________
Teacher______________________
Date________________________

MULTIPLICATION POST-TEST FORM A

M 1	2 X 3	4 X 2	3 X 4	5 X 3	5 X 4	2 X 2
	6 X 4	6 X 5	3 X 3	6 X 3	5 X 2	5 X 5
	1 X 6	7 X 5	4 X 4	5 X 0	7 X 4	6 X 6
____ 18						
M 2	7 X 7	9 X 5	9 X 9	2 X 9	4 X 8	7 X 3

MULTIPLICATION POST-TEST FORM A

M 1	2 X 3	4 X 2	3 X 4	5 X 3	5 X 4	2 X 2
	6 X 4	6 X 5	3 X 3	6 X 3	5 X 2	5 X 5
	1 X 6	7 X 5	4 X 4	5 X 0	7 X 4	6 X 6
18						

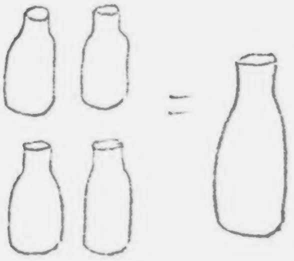
M 2	7 X 7	9 X 5	9 X 9	2 X 9	4 X 8	7 X 3
	3 X 9	8 X 8	6 X 7	5 X 8	9 X 7	6 X 9
	6 X 7	2 X 7	8 X 6	2 X 8	8 X 9	8 X 7
18						

M 3	12 X 2	23 X 4	312 X 3	9687 X 1
4				

MULTIPLICATION POST-TEST FORM A

M 4 ___ 4	56 X 5	79 X 9	375 X 8	5343 X 7
M 5 ___ 4	43 X81	54 X36	629 X 27	5938 X 73
M 6 ___ 4	60 X 8	236 X 40	607 X 96	5080 X 401

M 7 If there are 4 quarts per gallon, there are ________ quarts in 8 gallons?



(Show your work)

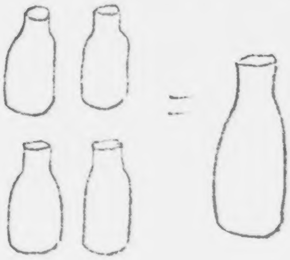
ANSWER

Mr. Todd had 260 customers a day.

4				
M 5	43 X81	54 X36	629 X 27	5938 X 73
4				
M 6	60 X 8	236 X 40	607 X 96	5080 X 401
4				

M 7

If there are 4 quarts per gallon, there are ________ quarts in 8 gallons?



(Show your work)

ANSWER

Mr. Todd had 260 customers a day. How many customers did he have in 8 days?

ANSWER

(Show your work)

M 7
cont'd.

Jan works for Mr. Todd after school.
She earns $2.28 each day.
How much does Jan earn in 4 days?

ANSWER

(Show your work)

If there are 365 days in a year,
how many days are in 34 years?
(Do not dount the extra days for
leap year).

ANSWER

(Show your work)

4

KEY

Name____________________
Team____________________
Teacher__________________
Date____________________

MULTIPLICATION POST-TEST FORM A

M 1	2	4	3	5	5	2
	X 3	X 2	X 4	X 3	X 4	X 2
	6	8	12	15	20	4
	6	6	3	6	5	5
	X 4	X 5	X 3	X 3	X 2	X 5
	24	30	9	18	10	25
	1	7	4	5	7	6
	X 6	X 5	X 4	X 0	X 4	X 6
	6	35	16	0	28	36
18						
M 2	7	9	9	2	4	7
	X 7	X 5	X 9	X 9	X 8	X 3
	49	45	81	18	32	21
	3	8	6	5	9	6
	X 9	X 8	X 7	X 8	X 7	X 9

MULTIPLICATION POST-TEST FORM A

M 1	2	4	3	5	5	2
	X 3	X 2	X 4	X 3	X 4	X 2
	6	8	12	15	20	4
	6	6	3	6	5	5
	X 4	X 5	X 3	X 3	X 2	X 5
	24	30	9	18	10	25
	1	7	4	5	7	6
	X 6	X 5	X 4	X 0	X 4	X 6
18	6	35	16	0	28	36

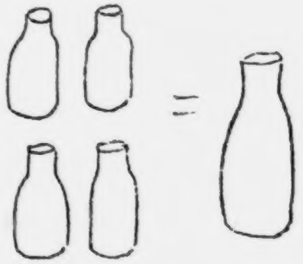
M 2	7	9	9	2	4	7
	X 7	X 5	X 9	X 9	X 8	X 3
	49	45	81	18	32	21
	3	8	6	5	9	6
	X 9	X 8	X 7	X 8	X 7	X 9
	27	64	42	40	63	54
	6	2	8	2	8	8
	X 7	X 7	X 6	X 8	X 9	X 7
18	42	14	48	16	72	56

M 3	12	23	312	9687
	X 2	X 4	X 3	X 1
4	24	92	936	9687

MULTIPLICATION POST-TEST FORM A

M 4 4	56 X 5 280	79 X 9 711	375 X 8 3,000	5343 X 7 37,401
M 5 4	43 X81 43 344 3,483	54 X36 324 162 1,944	629 X 27 4403 1258 16,983	5938 X 73 17814 41566 433,474
M 6 4	60 X 8 480	236 X 40 9,440	607 X 96 3642 5463 58,272	5080 X 401 5080 203200 2,037,080

M 7 If there are 4 quarts per gallon, there are 32 quarts in 8 gallons?



8
x4
32

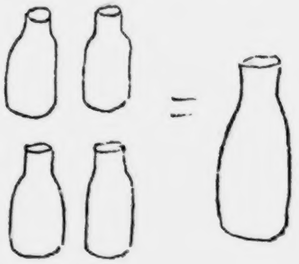
(Show your work)

ANSWER
32

Mr. Todd had 260 customers a day. How many customers did he have in 8 days?

4				
M 5 —— 4	43 X81 43 344 3,483	54 X36 324 162 1,944	629 X 27 4403 1258 16983	5938 X 73 17814 41566 433474
M 6 —— 4	60 X 8 430	236 X 40 9,440	607 X 96 3642 5463 58,272	5080 X 401 5080 203200 2,037,080

M 7 If there are 4 quarts per gallon, there are 32 quarts in 8 gallons?



$$\begin{array}{r} 8 \\ \times 4 \\ \hline 32 \end{array}$$

(Show your work)

ANSWER

32

Mr. Todd had 260 customers a day. How many customers did he have in 8 days?

$$\begin{array}{r} 260 \\ \times 8 \\ \hline 2080 \end{array}$$

(Show your work)

ANSWER

2,080

M 7
cont'd.

Jan works for Mr. Todd after school.
She earns $2.28 each day.
How much does Jan earn in 4 days?

$2.28
x4
$9.12

(Show your work)

ANSWER

$9.12

If there are 365 days in a year, how many days are in 34 years? (Do not dount the extra days for leap year).

365
X34
1460
1095
12410

(Show your work)

ANSWER

12,410

4

NAME ______________________________

TEAM ______________________________

TEACHER ___________________________

DATE ______________________________

FORM A or B (Circle one)

DIVISION OPERATIONS

	Pre-Test	Program	Post-Test	Comments
D1 Division facts 1-6	___ 20		___ 20	
D2 Division facts 7-9	___ 20		___ 20	
D3 1 digit divisor into 2 digit dividend with missing factor less than 10 - vertical form	___ 4		___ 4	
D4 1 digit divisor into 2, 3 digit divident - working form	___ 4		___ 4	
D5 2 digit divisor into 3 digit divident - working form	___ 4		___ 4	
D6 Story Problems	___ 4		___ 4	
Supplementary Work				

Name ______________________
Team ______________________
Teacher ______________________
Date ______________________

DIVISION PRE-TEST FORM A

D 1

4 ÷ 2 =   20 ÷ 4 =   15 ÷ 3 =   12 ÷ 4 =   6 ÷ 3 =

25 ÷ 5 =   10 ÷ 2 =   18 ÷ 3 =   9 ÷ 3 =   30 ÷ 5 =

$4\overline{)24}$ $4\overline{)8}$ $6\overline{)36}$ $4\overline{)28}$ $5\overline{)0}$

$4\overline{)16}$ $5\overline{)35}$ $1\overline{)6}$ $2\overline{)12}$ $8\overline{)16}$

20

D 2

21 ÷ 3 =   32 ÷ 8 =   18 ÷ 2 =   49 ÷ 7 =   45 ÷ 9 =

81 ÷ 9 =   54 ÷ 6 =   63 ÷ 9 =   40 ÷ 5 =   42 ÷ 6 =

$8\overline{)64}$ $3\overline{)27}$ $10\overline{)60}$ $9\overline{)72}$ $7\overline{)14}$

$6\overline{)48}$ $8\overline{)56}$ $8\overline{)40}$ $6\overline{)24}$ $9\overline{)90}$

20

FORM A

DIVISION PRE-TEST

D 3

☐ 5/28 25 3	☐ 8/26 24 ☐	☐ 4/33 —	☐ 9/85 —

/4

D 4

3/45 30 ☐ 15 15 ☐ 0 ☐	4/93 80 ☐ 13 ☐ ☐ ☐ ☐	9/369	7/680

/4

D 5

☐ 26/339 260 ☐ 79 78 ☐ ☐ ☐	☐ 23/782 690 ☐ 92 ☐ ☐ ☐ ☐	28/440

38/5961

25
3

24
☐

4

D 4

3/45 ☐
30 ☐
15
15 ☐
0 ☐

4/93 ☐
80 ☐
13
☐ ☐
☐ ☐

9/369

7/680

4

D 5

☐
26/339
260 ☐
79
78 ☐
☐ ☐

☐
23/782
690 ☐
92
☐ ☐
☐ ☐

28/440

38/5961

4

D 6 Eric has 24 marbles. If he puts the same number of marbles in three bags, how many will he have in each bag?

ANSWER

(Show your work)

D 6 The children bought 6 toy monkeys at the circus for 90¢. How much did each monkey cost?

ANSWER

(Show your work)

How many students will be on each team if 240 students are separated into 8 teams?

ANSWER

(Show your work)

If each bus can carry 48 people, how many buses are needed to carry 384 people?

ANSWER

monkey cost?

ANSWER

(Show your work)

How many students will be on each team if 240 students are separated into 8 teams?

ANSWER

(Show your work)

If each bus can carry 48 people, how many buses are needed to carry 384 people?

ANSWER

(Show your work)

4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

DIVISION PRE-TEST FORM A

D 1

$4 \div 2 = 8$ $20 \div 4 = 5$ $15 \div 3 = 5$ $12 \div 4 = 3$ $6 \div 3 = 3$

$25 \div 5 = 5$ $10 \div 2 = 5$ $18 \div 3 = 6$ $9 \div 3 = 3$ $30 \div 5 = 6$

$\begin{array}{r} 6 \\ 4\overline{)24} \end{array}$ $\begin{array}{r} 2 \\ 4\overline{)8} \end{array}$ $\begin{array}{r} 6 \\ 6\overline{)36} \end{array}$ $\begin{array}{r} 7 \\ 4\overline{)28} \end{array}$ $\begin{array}{r} 0 \\ 5\overline{)0} \end{array}$

$\begin{array}{r} 4 \\ 4\overline{)16} \end{array}$ $\begin{array}{r} 7 \\ 5\overline{)35} \end{array}$ $\begin{array}{r} 6 \\ 1\overline{)6} \end{array}$ $\begin{array}{r} 6 \\ 2\overline{)12} \end{array}$ $\begin{array}{r} 8 \\ 8\overline{)16} \end{array}$

__ / 20

D 2

$21 \div 3 = 7$ $32 \div 8 = 4$ $18 \div 2 = 9$ $49 \div 7 = 7$ $45 \div 9 = 5$

$81 \div 9 = 9$ $54 \div 6 = 9$ $63 \div 9 = 7$ $40 \div 5 = 8$ $42 \div 6 = 7$

$\begin{array}{r} 8 \\ 8\overline{)64} \end{array}$ $\begin{array}{r} 9 \\ 3\overline{)27} \end{array}$ $\begin{array}{r} 6 \\ 10\overline{)60} \end{array}$ $\begin{array}{r} 8 \\ 9\overline{)72} \end{array}$ $\begin{array}{r} 2 \\ 7\overline{)14} \end{array}$

$\begin{array}{r} 8 \\ 6\overline{)48} \end{array}$ $\begin{array}{r} 7 \\ 8\overline{)56} \end{array}$ $\begin{array}{r} 5 \\ 8\overline{)40} \end{array}$ $\begin{array}{r} 4 \\ 6\overline{)24} \end{array}$ $\begin{array}{r} 10 \\ 9\overline{)90} \end{array}$

__ / 20

DIVISION PRE-TEST FORM A

D 3

$\boxed{5}$
5/28
25
3

$\boxed{3}$
8/26
24
$\boxed{2}$

$\boxed{8}$
4/33
32
1

$\boxed{9}$
9/85
81
4

4

D 4

15
3/45
30 | $\boxed{10}$
15
15 | $\boxed{5}$
0 | $\boxed{15}$

23 r.1
4/93
80 | $\boxed{20}$
13
$\boxed{12}$ | $\boxed{3}$
$\boxed{1}$ | $\boxed{23}$

41
9/369
36 | 40
9
9 | 1
0

97 r.1
7/680
630 | 90
50
49
| 7
1

4

D 5

$\boxed{13}$ r.1
26/339
260 | $\boxed{10}$
79
78 | $\boxed{3}$
$\boxed{1}$ | $\boxed{13}$

$\boxed{34}$
23/782
690 | $\boxed{30}$
92
$\boxed{92}$ | $\boxed{4}$
$\boxed{0}$ | $\boxed{34}$

15 r.20
28/440
280 | 10
160
140
20 | 15

156 r.33
38/5961

$\frac{25}{3}$ $\frac{24}{\boxed{2}}$ $\frac{32}{1}$ $\frac{81}{4}$

4

D 4

15
3/45
30 | $\boxed{10}$
15
15 | $\boxed{5}$
0 | $\boxed{15}$

23 r.1
4/93
80 | $\boxed{20}$
13
$\boxed{12}$ | $\boxed{3}$
$\boxed{1}$ | $\boxed{23}$

41
9/369
36 | 40
9
9 | 1
0

97 r.1
7/680
630 | 90
50
49 | 7
1

4

D 5

$\boxed{13}$ r.1
26/339
260 | $\boxed{10}$
79
78 | $\boxed{3}$
$\boxed{1}$ | $\boxed{13}$

$\boxed{34}$
23/782
690 | $\boxed{30}$
92
$\boxed{92}$ | $\boxed{4}$
$\boxed{0}$ | $\boxed{34}$

15 r.20
28/440
280 | 10
160
140
20 | 15

156 r.33
38/5961
3800 | 100
2161
1900 | 50
261
228 | 6
33 | 156 r 33

4

D 6 Eric has 24 marbles. If he puts the same number of marbles in three bags, how many will he have in each bag?

8
3/24
24

(Show your work)

ANSWER

8

Γ 6

The children bought 6 toy monkeys at the circus for 90¢. How much did each monkey cost?

$$\begin{array}{r} \$.15 \\ 6\overline{)\$.90} \\ .6 \\ 30 \\ 30 \end{array}$$

(Show your work)

ANSWER

$.15

How many students will be on each team if 240 students are separated into 8 teams?

$$\begin{array}{r} 30 \\ 8\overline{)240} \\ \underline{24} \\ 0 \\ 0 \end{array}$$

(Show your work)

ANSWER

30

If each bus can carry 48 people, how many buses are needed to carry 384 people?

$$\begin{array}{r} 8 \\ 48\overline{)384} \\ \underline{384} \end{array}$$

(Show your work)

ANSWER

8

4

Name ____________________

Team ____________________

Teacher ____________________

Date ____________________

DIVISION POST-TEST FORM A

D 1

$6 \div 3 =$ $12 \div 4 =$ $15 \div 3 =$ $20 \div 4 =$

$4 \div 2 =$ $30 \div 5 =$ $9 \div 3 =$ $18 \div 3 =$

$10 \div 2 =$ $25 \div 5 =$

$5\overline{)0}$ $4\overline{)28}$ $6\overline{)36}$ $4\overline{)8}$

$4\overline{)24}$ $8\overline{)16}$ $2\overline{)12}$ $1\overline{)6}$

$5\overline{)35}$ $4\overline{)16}$

20

D 2

$45 \div 9 =$ $49 \div 7 =$ $18 \div 2 =$ $32 \div 8 =$

$21 \div 3 =$ $42 \div 6 =$ $40 \div 5 =$ $63 \div 9 =$

$54 \div 6 =$ $81 \div 9 =$

DIVISION POST-TEST FORM A

D 1

$6 \div 3 =$ $12 \div 4 =$ $15 \div 3 =$ $20 \div 4 =$

$4 \div 2 =$ $30 \div 5 =$ $9 \div 3 =$ $18 \div 3 =$

$10 \div 2 =$ $25 \div 5 =$

$5\overline{)0}$ $4\overline{)28}$ $6\overline{)36}$ $4\overline{)8}$

$4\overline{)24}$ $8\overline{)16}$ $2\overline{)12}$ $1\overline{)6}$

$5\overline{)35}$ $4\overline{)16}$

$\overline{20}$

D 2

$45 \div 9 =$ $49 \div 7 =$ $18 \div 2 =$ $32 \div 8 =$

$21 \div 3 =$ $42 \div 6 =$ $40 \div 5 =$ $63 \div 9 =$

$54 \div 6 =$ $81 \div 9 =$

$7\overline{)14}$ $9\overline{)72}$ $10\overline{)60}$ $3\overline{)27}$

$8\overline{)64}$ $9\overline{)90}$ $6\overline{)24}$ $8\overline{)40}$

$8\overline{)56}$ $6\overline{)48}$

$\overline{20}$

DIVISION POST-TEST FORM A

D 3

☐
5/33
30
3

☐
9/29
27
☐

4/38

8/75

4

D 4

☐
3/55
30 ☐
25
24 ☐
1 ☐

☐
4/75
40 ☐
35
☐
☐

7/289

6/550

4

D 5

☐
23/266
230 ☐
36
23 ☐
☐ ☐

☐
21/682
630 ☐
52
☐
☐ ☐

44/539

37/6951

4

DIVISION POST-TEST FORM A

P 6 Eric has 30 marbles. He has 5 bags. If he puts the same number in each bag, how many will he have in each bag?

ANSWER

(Show your work)

The children bought 7 toy lions at the circus for 84¢. How much did each lion cost?

ANSWER

(Show your work)

How many students will be on each team if 393 students are separated into 9 teams? (Be careful!)

ANSWER

How many extra students will there be?

will he have in each bag?

ANSWER

(Show your work)

The children bought 7 toy lions at the circus for 84¢. How much did each lion cost?

ANSWER

(Show your work)

How many students will be on each team if 393 students are separated into 9 teams? (Be careful!)

ANSWER

How many extra students will there be?

What are you going to do with them?

If a bus can carry 54 people, how many buses are needed to carry 486 people?

ANSWER

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

DIVISION POST-TEST FORM A

1

6÷3 = 2　　12÷4 = 3　　15÷3 = 5　　20÷4 = 5

4÷2 = 2　　30÷5 = 6　　9÷3 = 3　　18÷3 = 6

10÷2 = 5　　25÷5 = 5

$\begin{array}{r}0\\5\overline{)0}\end{array}$　　$\begin{array}{r}7\\4\overline{)28}\end{array}$　　$\begin{array}{r}6\\6\overline{)36}\end{array}$　　$\begin{array}{r}2\\4\overline{)8}\end{array}$

$\begin{array}{r}6\\4\overline{)24}\end{array}$　　$\begin{array}{r}2\\8\overline{)16}\end{array}$　　$\begin{array}{r}6\\2\overline{)12}\end{array}$　　$\begin{array}{r}6\\1\overline{)6}\end{array}$

$\begin{array}{r}7\\5\overline{)35}\end{array}$　　$\begin{array}{r}4\\4\overline{)16}\end{array}$

$\overline{20}$

2

45÷9 = 5　　49÷7 = 7　　18÷2 = 9　　32÷8 = 4

21÷3 = 7　　42÷6 = 7　　40÷5 = 8　　63÷9 = 7

54÷6 = 9　　81÷9 = 9

DIVISION POST-TEST FORM A

1

6÷3 = 2	12÷4 = 3	15÷3 = 5	20÷4 = 5
4÷2 = 2	30÷5 = 6	9÷3 = 3	18÷3 = 6
10÷2 = 5	25÷5 = 5		
$\overset{0}{5\overline{)0}}$	$\overset{7}{4\overline{)28}}$	$\overset{6}{6\overline{)36}}$	$\overset{2}{4\overline{)8}}$
$\overset{6}{4\overline{)24}}$	$\overset{2}{8\overline{)16}}$	$\overset{6}{2\overline{)12}}$	$\overset{6}{1\overline{)6}}$
$\overset{7}{5\overline{)35}}$	$\overset{4}{4\overline{)16}}$		

$\overline{20}$

2

45÷9 = 5	49÷7 = 7	18÷2 = 9	32÷8 = 4
21÷3 = 7	42÷6 = 7	40÷5 = 8	63÷9 = 7
54÷6 = 9	81÷9 = 9		
$\overset{2}{7\overline{)14}}$	$\overset{8}{9\overline{)72}}$	$\overset{6}{10\overline{)60}}$	$\overset{9}{3\overline{)27}}$
$\overset{8}{8\overline{)64}}$	$\overset{10}{9\overline{)90}}$	$\overset{4}{6\overline{)24}}$	$\overset{5}{8\overline{)40}}$
$\overset{7}{8\overline{)56}}$	$\overset{8}{6\overline{)48}}$		

$\overline{20}$

DIVISION POST-TEST FORM A

3

$\boxed{6}$
5/33
30
3

$\boxed{3}$
9/29
27
$\boxed{2}$

9
4/38
36
2

9
8/75
72
3

7

4

3/55
30 | $\boxed{10}$
25
24 | $\boxed{8}$
1 | $\boxed{18}$

4/75
40 | $\boxed{10}$
35
32 | $\boxed{8}$
3 | $\boxed{18}$

41 r.2
7/289
280 | 40
9
7 | 1
2 | 41

91 r.4
6/550
540 | 90
10
6 | 1
4 | 91

4

5

23/266
230 | $\boxed{10}$
36
23 | $\boxed{1}$
$\boxed{13}$ | $\boxed{11}$

21/682
630 | $\boxed{30}$
52
42 | $\boxed{2}$
$\boxed{10}$ | $\boxed{32}$

12 r.11
44/539
440 | 10
99

187 r.32
37/6951
3700 | 100
3250

3 $\boxed{2}$ 2 3

7

4

41 r. 2

91 r. 4

3/55	
30	$\boxed{10}$
25	
24	$\boxed{8}$
1	$\boxed{18}$

4/75	
40	$\boxed{10}$
35	
32	$\boxed{8}$
3	$\boxed{18}$

7/289	
280	40
9	
7	1
2	41

6/550	
540	90
10	
6	1
4	91

4

5

23/266	
230	$\boxed{10}$
36	
23	$\boxed{1}$
$\boxed{13}$	$\boxed{11}$

21/682	
630	$\boxed{30}$
52	
42	$\boxed{2}$
$\boxed{10}$	$\boxed{32}$

12 r. 11

44/539	
440	10
99	
88	2
11	12

187 r. 32

37/6951	
3700	100
3250	
2960	80
291	
259	7
32	187

4

DIVISION POST-TEST FORM A

D 6 Eric has 30 marbles. He has 5 bags. If he puts the same number in each bag, how many will he have in each bag?

$$\begin{array}{r} 6 \\ 5\overline{)30} \\ \underline{30} \\ 0 \end{array}$$

(Show your work)

ANSWER 6

The children bought 7 toy lions at the circus for 84¢. How much did each lion cost?

$$\begin{array}{r} 12 \\ 7\overline{)84} \\ \underline{7} \\ 14 \\ \underline{14} \end{array}$$

(Show your work)

ANSWER 12¢

How many students will be on each team if 393 students are separated into 9 teams? (Be careful!)

$$\begin{array}{r} 43 \\ 9\overline{)393} \\ \underline{36} \\ 33 \\ \underline{27} \\ 6 \end{array}$$

ANSWER 43 students

How many extra students will there be? 6

will he have in each bag?

6
5|30
30
0

(Show your work)

ANSWER
6

The children bought 7 toy lions at the circus for 84¢. How much did each lion cost?

12
7|84
7
14
14

(Show your work)

ANSWER
12¢

How many students will be on each team if 393 students are separated into 9 teams? (Be careful!)

43
9|393
36
33
27
6

ANSWER
43 students

How many extra students will there be? 6

What are you going to do with them?

If a bus can carry 54 people, how many buses are needed to carry 486 people?

9
54|486
486
0

ANSWER
9

NAME ____________________

TEAM ____________________

TEACHER ____________________

DATE ____________________

FORM A or B (Circle one)

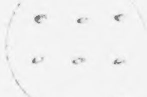
MULTIPLICATION - DIVISION

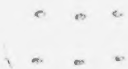
	Pre-Test	Program	Post-Test	Comment
M-D1 Concepts	___ 4		___ 4	
M-D2 Mult-Division facts to 4 x 9 and 40 5	___ 20		___ 20	
M-D3 Story Problems	___ 4		___ 4	
M-D4 Family of Facts	___ 4		___ 4	
M-D5 M-D facts to 9 x 9 and 50 ÷ 10	___ 20		___ 20	
M-D6 Prime numbers common factory	___ 4		___ 4	
Supplementary work				

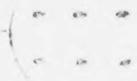
Name
Team
Teacher
Date

MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 1 Circle the multiplication equation that is the same as the sets below:







6X6 = 36 3X3 = 9 3X6 = 18

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5:

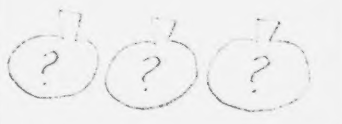
5X5 = 25 6X5 = 30 7X5 = 35

Study this chart:

28 - 7 = 21
21 - 7 = 14
14 - 7 = 7
7 - 7 = 0

How many sevens are subtracted to get from 28-0? -----

12 marbles



There is the same number in each bag. How many in each bag?___

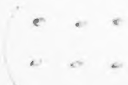
4

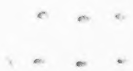
MD 2 2X6 = 3X3 = 4X2 = 3X5 =

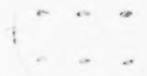
4X3 2X7 0X1 4X5 =

MD 1

Circle the multiplication equation that is the same as the sets below:







6X6 = 36 3X3 = 9 3X6 = 18

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5:

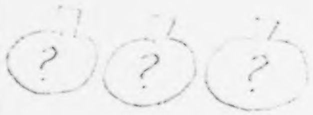
5X5 = 25 6X5 = 30 7X5 = 35

Study this chart:

28 - 7 = 21
21 - 7 = 14
14 - 7 = 7
7 - 7 = 0

How many sevens are subtracted to get from 28-0? _____

12 marbles



There is the same number in each bag. How many in each bag? _

___
4

MD 2

2X6 = 3X3 = 4X2 = 3X5 =

4X3 = 3X7 = 0X1 = 4X5 =

2X3 = 4X9 = 8÷4 = 16÷4 =

24÷3 = 10÷2 = 27÷3 = 4÷2 =

18÷3 = 40÷5 = 18÷2 = 25÷5 =

___
20

MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 3 How many legs do 3 cows have?

(Show your work)

How many cents are there in 4 nickels?

(Show your work)

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

(Show your work)

An Indian had 30 feathers. He wanted to make 5 head dresses. How many feathers were in each head dress?

(Show your work)

(You may draw your answer to this problem.)

4

family of facts for this

(Show your work)

How many cents are there in 4 nickels?

(Show your work)

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

(Show your work)

An Indian had 30 feathers. He wanted to make 5 head dresses. How many feathers were in each head dress?

(Show your work)

(You may draw your answer to this problem.)

$\frac{\quad}{4}$

MD 4 Write the family of facts for this set of two factors and a product:

$$\left\{2,\quad 8,\quad 16\right\}$$

$\frac{\quad}{4}$

MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 5	6X3 =	7X8 =	6X7 =	8X4 =
	9X9 =	7X3 =	6X6 =	9X6 =
	8X3 =	6X5 =	14÷7 =	45÷5 =
	64÷8 =	8÷8 =	40÷8 =	49÷7 =
	72÷9 =	63÷7 =	35÷5 =	50÷10=

$\overline{}$
20

MD 6 List the prime numbers from 0 to 30:

____

Name all the factors of 20:

____

factors of 24 = {1, 2, 3, 4, 6, 8, 12, 24}

factors of 30 = {1, 2, 3, 5, 6, 10, 15, 30}

What are the common factors of 24 & 30?

____

Solve this equation: Fill in the missing numbers:

8X3 =   6X5 =   14÷7 =   45÷5 =

64÷8 =   8÷8 =   40÷8 =   49÷7 =

72÷9 =   63÷7 =   35÷5 =   50÷10=

___
20

MD 6 List the prime numbers from 0 to 30:

____

Name all the factors of 20:

____

factors of 24 = {1,2,3,4,6,8,12,24}

factors of 30 = {1,2,3,5,6,10,15,30}

What are the common factors of 24 & 30?

____

Solve this equation: Fill in the missing numbers:

56 + 32 = (___ X 8) + (___ X 8)
= (___ + 9) X 8
= ___ X 8
= ____

___
4

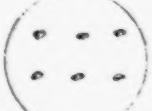
KEY

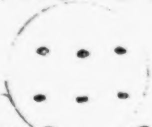
Name
Team
Teacher
Date

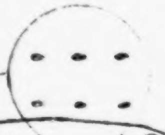
MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 1

Circle the multiplication equation that is the same as the sets below:


6X6 = 36


3X3 = 9


[✓ 3X6 = 18]

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5:

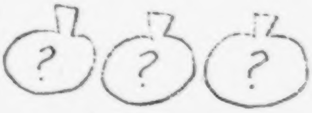
5X5 = 25 [✓ 6X5 = 30] 7X5 = 35

Study this chart:

28 - 7 = 21
21 - 7 = 14
14 - 7 = 7
7 - 7 = 0

How many sevens are subtracted to get from 28-0? 4

12 marbles



There is the same number in each bag. How many in each bag? 4

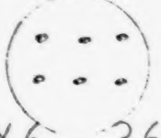
4

MD 2 2X6 = 12 3X3 = 9 4X2 = 8 3X5 = 15

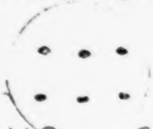
MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 1

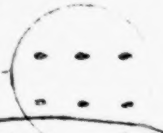
Circle the multiplication equation that is the same as the sets below:



6X6 = 36



3X3 = 9



[✓ 3X6 = 18]

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5:

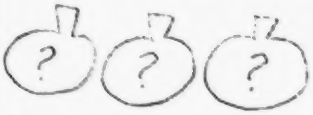
5X5 = 25 [✓ 6X5 = 30] 7X5 = 35

Study this chart:

28 - 7 = 21
21 - 7 = 14
14 - 7 = 7
7 - 7 = 0

How many sevens are subtracted to get from 28-0? 4

12 marbles



There is the same number in each bag. How many in each bag? 4

4

MD 2

2X6 = 12 3X3 = 9 4X2 = 8 3X5 = 15

4X3 = 12 3X7 = 21 0X1 = 0 4X5 = 20

2X3 = 6 4X9 = 36 8÷4 = 2 16÷4 = 4

24÷3 = 8 10÷2 = 5 27÷3 = 9 4÷2 = 2

18÷3 = 6 40÷5 = 8 18÷2 = 9 25÷5 = 5

20

MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 3 How many legs do 3 cows have?

(Show your work)

$$\begin{array}{r} 4 \\ \underline{3} \\ 12 \end{array}$$

How many cents are there in 4 nickels?

(Show your work)

$$\begin{array}{r} 4 \\ \underline{\times 5} \\ 20 \end{array}$$

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

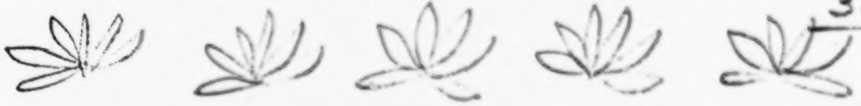
$$\begin{array}{r} 6 \\ 3\overline{)18} \\ \underline{18} \end{array}$$

(Show your work)

An Indian had 30 feathers. He wanted to make 5 head dresses. How many feathers were in each head dress?

(Show your work)

$$\begin{array}{r} 6 \\ 5\overline{)30} \\ \underline{30} \end{array}$$



(You may draw your answer to this problem.)

___ 4

MD 4 Write the family of facts for this set of two factors and a product:

$$\begin{array}{r} 4 \\ \underline{3} \\ 12 \end{array}$$

(Show your work)

How many cents are there in 4 nickels?

(Show your work)

$$\begin{array}{r} 4 \\ \underline{\times 5} \\ 20 \end{array}$$

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

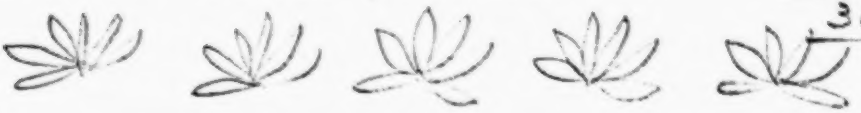
$$\begin{array}{r} 6 \\ 3\overline{)18} \\ \underline{18} \end{array}$$

(Show your work)

An Indian had 30 feathers. He wanted to make 5 head dresses. How many feathers were in each head dress?

(Show your work)

$$\begin{array}{r} 6 \\ 5\overline{)30} \\ \underline{30} \end{array}$$



(You may draw your answer to this problem.)

$\overline{4}$

MD 4 Write the family of facts for this set of two factors and a product:

$\{2, \quad 8, \quad 16\}$

2 x 8 = 16

8 x 2 = 16

16 ÷ 8 = 2

16 ÷ 2 = 8

$\overline{4}$

MULTIPLICATION-DIVISION PRE-TEST FORM A

MD 5

6X3 = 18 7X8 = 56 6X7 = 42 8X4 = 32

9X9 = 81 7X3 = 21 6X6 = 36 9X6 = 54

8X3 = 24 6X5 = 30 14÷7 = 2 45÷5 = 9

64÷8 = 8 8÷8 = 1 40÷8 = 5 49÷7 = 7

72÷9 = 8 63÷7 = 9 35÷5 = 7 50÷10 = 5

___
20

MD 6 List the prime numbers from 0 to 30:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29

Name all the factors of 20:

1, 2, 4, 5, 10, 20

factors of 24 = {1, 2, 3, 4, 6, 8, 12, 24}

factors of 30 = {1, 2, 3, 5, 6, 10, 15, 30}

What are the common factors of 24 & 30?

1, 2, 3, 6

Solve this equation: Fill in the

8X3 = 24   6X5 = 30   14÷7 = 2   45÷5 = 9

64÷8 = 8   8÷8 = 1   40÷8 = 5   49÷7 = 7

72÷9 = 8   63÷7 = 9   35÷5 = 7   50÷10 = 5

___
20

MD 6 List the prime numbers from 0 to 30:

2, 3, 5, 7, 11, 13, 17, 19, 23, 29

Name all the factors of 20:

1, 2, 4, 5, 10, 20

factors of 24 = {1, 2, 3, 4, 6, 8, 12, 24}

factors of 30 = {1, 2, 3, 5, 6, 10, 15, 30}

What are the common factors of 24 & 30?

1, 2, 3, 6

Solve this equation: Fill in the missing numbers:

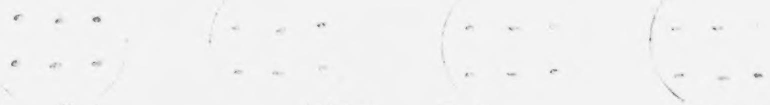
56 + 32 = (7 X 8) + (4 X 8)
= (2 + 9) X 8
= 11 X 8
= 88

___
4

Name
Team
Teacher
Date

MULTIPLICATION-DIVISION POST-TEST FORM A

MD 1 Circle the multiplication equation that is the same as the sets below:



6X6 = 36　　4X6 = 24　　4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8

8X8 = 64　　6X5 = 30　　6X8 = 48

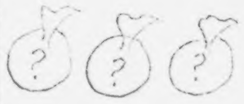
Study this chart:

16-4 = 12
12-4 = 8
8-4 = 4
4-4 = 0

How many 4's are subtracted to get from 16 to 0? _____

---

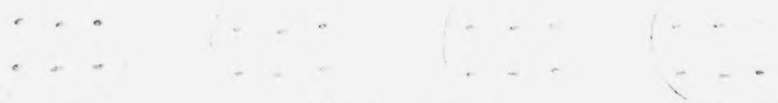
12 marbles



There is the same number in each bag. How many in each bag?

______

MD 1 Circle the multiplication equation that is the same as the sets below:



6X6 = 36 4X6 = 24 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8

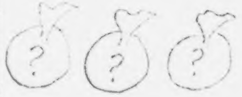
8X8 = 64 6X5 = 30 6X8 = 48

Study this chart:

16-4 = 12
12-4 = 8
8-4 = 4
4-4 = 0

How many 4's are subtracted to get from 16 to 0? _____

12 marbles



There is the same number in each bag. How many in each bag?

______

4

MD 2	2 X 6 =	3 X 3 =	4 X 2 =	3 X 5 =
	4 X 3 =	3 X 7 =	0 X 1 =	4 X 5 =
	2 X 3 =	4 X 9 =	8 ÷ 4 =	16 ÷ 4 =
	24 ÷ 3 =	10 ÷ 2 =	27 ÷ 3 =	4 ÷ 2 =
	18 ÷ 3 =	40 ÷ 5 =	18 ÷ 2 =	25 ÷ 5 =

20

MULTIPLICATION-DIVISION POST-TEST FORM A

MD 3 How many legs do 4 cows have?

(Show your work) __________

How many cents are there in 5 nickels?

____

A frog jumped 18 feet in 3 equal leaps.
How long was each leap?

____

An Indian had 36 feathers. He wanted
to make 6 head dresses. How many
feathers were in each head dress?

____

(You may draw your answer to this
problem.)

___
4

MD 4 Write the family of facts for this set
of two factors and a product:

$\{3,\ 6,\ 18\}$

____

____

How many cents are there in 5 nickels?

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

An Indian had 36 feathers. He wanted to make 6 head dresses. How many feathers were in each head dress?

(You may draw your answer to this problem.)

4

MD 4 Write the family of facts for this set of two factors and a product:

$$\left\{ 3, \quad 6, \quad 18 \right\}$$

4

MD 5

6 X 3 = 7 X 8 = 6 X 7 = 8 X 4 =

9 X 9 = 7 X 3 = 6 X 6 = 9 X 6 =

8 X 3 = 6 X 5 = 14 ÷ 7 = 45 ÷ 5 =

64 ÷ 8 = 8 ÷ 8 = 40 ÷ 8 = 49 ÷ 7 =

72 ÷ 9 = 63 ÷ 7 = 35 ÷ 5 = 50 ÷ 10 =

20

MD 6 List the prime numbers from 0 to 30:

____

Name all the factors of 30:

____

{factors of 24} = {1, 2, 3, 4, 6, 8, 12, 24}
{factors of 30} = {1, 2, 3, 5, 6, 10, 16, 30}

What are the common factors of 24 and 30?

____

Solve this equation: Fill in the missing numbers:

56 + 32 = (_X 8) + (__X 8)
= (_+_) X 8
= ___X 8
= ___

4

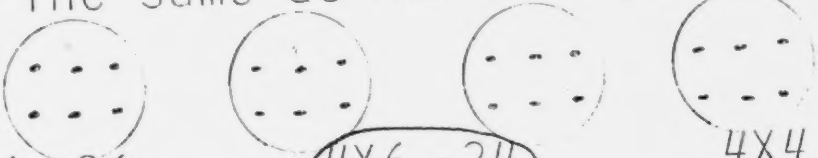
KEY

Name__________
Team __________
Teacher __________
Date __________

MULTIPLICATION-DIVISION POST-TEST FORM A

MD 1

Circle the multiplication equation that is the same as the sets below:



6X6 = 36 [✓ 4X6 = 24] 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8

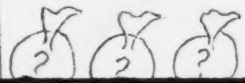
8X8 = 64 6X5 = 30 [✓ 6X8 = 48]

Study this chart:

16-4 = 12
12-4 = 8
8-4 = 4
4-4 = 0

How many 4's are subtracted to get from 16 to 0? __4__

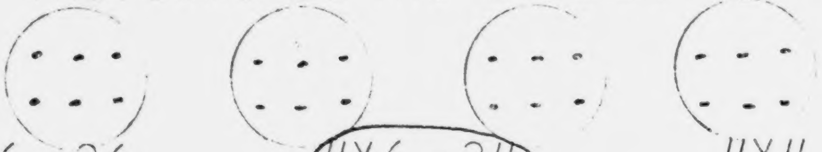
12 marbles



There is the same number in each bag. How many in each bag?

MD 1

Circle the multiplication equation that is the same as the sets below:



6X6 = 36 [✓ 4X6 = 24] 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8

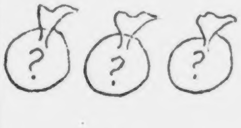
8X8 = 64 6X5 = 30 [✓ 6X8 = 48]

Study this chart:

16-4 = 12
12-4 = 8
8-4 = 4
4-4 = 0

How many 4's are subtracted to get from 16 to 0? 4

12 marbles



There is the same number in each bag. How many in each bag?

4

4

MD 2

2 X 6 = 12 3 X 3 = 9 4 X 2 = 8 3 X 5 = 15
4 X 3 = 12 3 X 7 = 21 0 X 1 = 0 4 X 5 = 20
2 X 3 = 6 4 X 9 = 36 8 ÷ 4 = 2 16 ÷ 4 = 4
24 ÷ 3 = 8 10 ÷ 2 = 5 27 ÷ 3 = 9 4 ÷ 2 = 2
18 ÷ 3 = 6 40 ÷ 5 = 8 18 ÷ 2 = 9 25 ÷ 5 = 5

20

MD 3 How many legs do 4 cows have?

(Show your work) $\begin{array}{r} 4 \\ \times 4 \\ \hline 16 \end{array}$

How many cents are there in 5 nickels?

$\begin{array}{r} 5 \\ \times 5 \\ \hline 25 \end{array}$

A frog jumped 18 feet in 3 equal leaps. How long was each leap?

$\begin{array}{r} 6 \\ 3\overline{)18} \\ 18 \end{array}$

____

An Indian had 36 feathers. He wanted to make 6 head dresses. How many feathers were in each head dress?

6

(You may draw your answer to this problem.)

4

MD 4 Write the family of facts for this set of two factors and a product:

$\{3, 6, 18\}$

3×6=18

6×3=18

18÷6=3

16

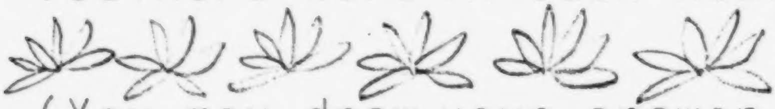
How many cents are there in 5 nickels?

$$\begin{array}{r} 5 \\ \times\ 5 \\ \hline 25 \end{array}$$

A frog jumped 18 feet in 3 equal leaps.
How long was each leap?

$$\begin{array}{r} 6 \\ 3\overline{)18} \\ 18 \\ \hline \end{array}$$

An Indian had 36 feathers. He wanted to make 6 head dresses. How many feathers were in each head dress?



6

(You may draw your answer to this problem.)

4

MD 4 Write the family of facts for this set of two factors and a product:

{3, 6, 18}

3x6=18
6x3=18
18÷6=3
18÷3=6

4

MD 5

6 X 3 = 18 7 X 8 = 56 6 X 7 = 42 8 X 4 = 36
9 X-9 = 81 7 X 3 = 21 6 X 6 = 36 9 X 6 = 54
8 X 3 = 24 6 X 5 = 30 14 ÷ 7 = 2 45 ÷ 5 = 9
64 ÷ 8 = 8 8 ÷ 8 = 1 40 ÷ 8 = 5 49 ÷ 7 = 7
72 ÷ 9 = 8 63 ÷ 7 = 9 35 ÷ 5 = 7 50 ÷ 10 = 5

20

MULTIPLICATION-DIVISION POST-TEST FORM A

MD 6

List the prime numbers from 0 to 30:

0, 3, 5, 7, 11, 13, 17, 19, 23, 29

Name all the factors of 30:

1, 2, 3, 5, 6, 10, 15

{factors of 24} = {1, 2, 3, 4, 6, 8, 12, 24}

{factors of 30} = {1, 2, 3, 5, 6, 10, 16, 30}

What are the common factors of 24 and 30?

1, 2, 3, 6

Solve this equation: Fill in the missing numbers:

$$\begin{aligned} 56 + 32 &= (\underline{7} \times 8) + (\underline{4} \times 8) \\ &= (\underline{7} + \underline{4}) \times 8 \\ &= \underline{11} \times 8 \\ &= \underline{88} \end{aligned}$$

4

NAME________________________________

TEAM______________DATE______________

TEACHER_____________________________

FORM A or B (Circle one)

FRACTIONS

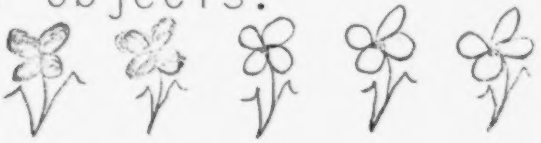
	Pre-Test	Program	Post-Test	Comment
UNIT I				
F1 Concepts	$\frac{}{5}$		$\frac{}{5}$	
F Order from Small to large	$\frac{}{3}$		$\frac{}{3}$	
F Equivalent fractions	$\frac{}{6}$		$\frac{}{6}$	
F4 Add-subtract like denominators	$\frac{}{6}$		$\frac{}{6}$	
UNIT II				
F Denominator numerator	$\frac{}{2}$		$\frac{}{2}$	
F6 Rename in simpler form	$\frac{}{6}$		$\frac{}{6}$	
F7 Comparing fractions	$\frac{}{2}$		$\frac{}{2}$	
F8 Renaming fractions	$\frac{}{8}$		$\frac{}{8}$	
F Reducing to Simpler form	$\frac{}{4}$		$\frac{}{4}$	

UNIT I				
F1 Concepts	$\frac{\quad}{5}$		$\frac{\quad}{5}$	
F Order from Small to large	$\frac{\quad}{3}$		$\frac{\quad}{3}$	
F Equivalent fractions	$\frac{\quad}{6}$		$\frac{\quad}{6}$	
F4 Add-subtract like denominators	$\frac{\quad}{6}$		$\frac{\quad}{6}$	
UNIT II				
F Denominator numerator	$\frac{\quad}{2}$		$\frac{\quad}{2}$	
F6 Rename in simpler form	$\frac{\quad}{6}$		$\frac{\quad}{6}$	
F7 Comparing fractions	$\frac{\quad}{2}$		$\frac{\quad}{2}$	
F8 Renaming fractions	$\frac{\quad}{8}$		$\frac{\quad}{8}$	
F Reducing to Simpler form	$\frac{\quad}{4}$		$\frac{\quad}{4}$	
UNIT III				
F10 Add subtract like denominators	$\frac{\quad}{4}$		$\frac{\quad}{4}$	
F11 Mixed fractions	$\frac{\quad}{3}$		$\frac{\quad}{3}$	
F12 < > =	$\frac{\quad}{3}$		$\frac{\quad}{3}$	
F13 Equivalent fractions	$\frac{\quad}{8}$		$\frac{\quad}{8}$	
F14	$\frac{\quad}{4}$		$\frac{\quad}{4}$	
F15	$\frac{\quad}{4}$		$\frac{\quad}{4}$	

Name ____________________
Team ____________________
Teacher __________________
Date ____________________

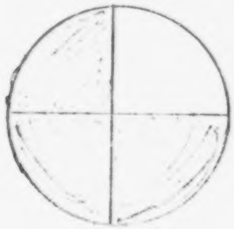
FRACTION PRE-TEST - UNIT I FORM A

Write a fraction to compare the number of shaded objects with the total number of objects:



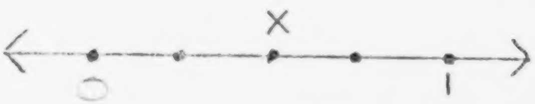
ANSWER

Write the fraction for the shaded region:



ANSWER

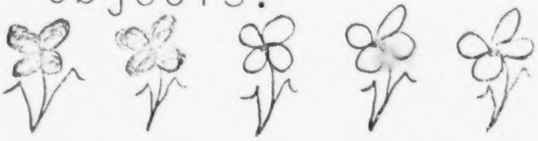
Name the fractional number labeled by X on the number line:



ANSWER

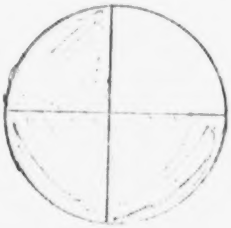
FRACTION PRE-TEST - UNIT I FORM A

Write a fraction to compare the number of shaded objects with the total number of objects:



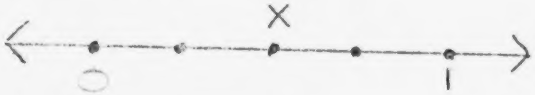
ANSWER

Write the fraction for the shaded region:



ANSWER

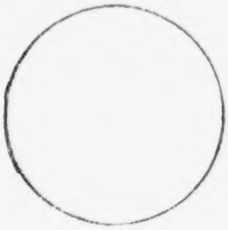
Name the fractional number labeled by X on the number line:



ANSWER

Divide this circle into thirds. Mark each third with the symbol 1/3.

Color 2/3 of the circle.



5

F 2 On the lines, list these fraction in order from smallest to largest:

1. 1/4 ______
   3/4 ______
   2/3 ______
   1/2 ______
   1/8 ______

2. Which is larger?
   1/3 or 1/8 ______
   2/3 or 1/2 ______

3

F 3 The equal sign (=) means "the same size as." Write another fraction that is the same size as each of these:

1/8 = ______

2/4 = ______

5/10 = ______

2/4 = ______

2/8 = ______

1/2 = ______

6

F 4 Add or subtract the following fractions. Watch the signs!

6/6 - 4/6 =

1/4 + 1/4 =

1. 1/4 ______
3/4 ______
2/3 ______
1/2 ______
1/8 ______

2. Which is larger?
1/3 or 1/8 ______
2/3 or 1/2 ______

3

F 3 The equal sign (=) means "the same size as." Write another fraction that is the same size as each of these:

1/8 = ______
2/4 = ______
5/10 = ______

2/4 = ______
2/8 = ______
1/2 = ______

6

F 4 Add or subtract the following fractions. Watch the signs!

6/6 - 4/6 = ______
2/3 + 1/3 = ______
4/5 - 2/5 = ______

1/4 + 1/4 = ______
3/8 + 1/8 = ______
2/8 + 1/8 = ______

6

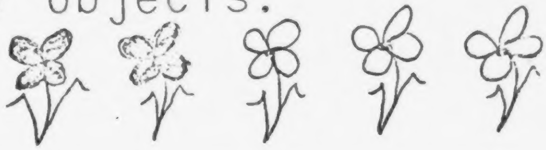
KEY

Name ____________________
Team ____________________
Teacher __________________
Date ____________________

FRACTION PRE-TEST - UNIT I FORM A

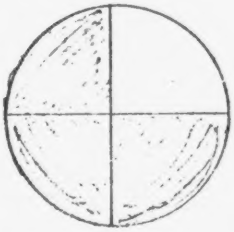
F 1

Write a fraction to compare the number of shaded objects with the total number of objects:



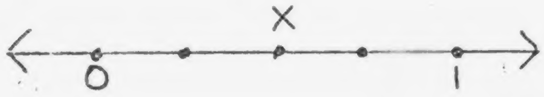
ANSWER
2/5

Write the fraction for the shaded region:



ANSWER
3/4

Name the fractional number labeled by X on the number line:

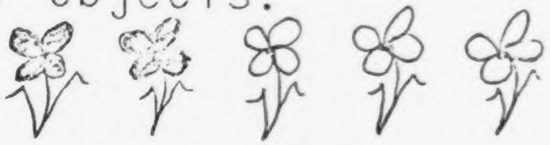


ANSWER
2/4 or 1/2

Date ______________________________

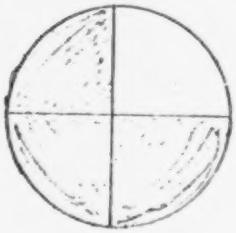
FRACTION PRE-TEST - UNIT I FORM A

F 1 Write a fraction to compare the number of shaded objects with the total number of objects:



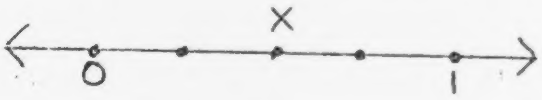
ANSWER
2/5

Write the fraction for the shaded region:



ANSWER
3/4

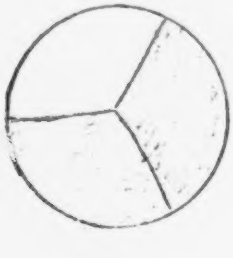
Name the fractional number labeled by X on the number line:



ANSWER
2/4 or 1/2

Divide this circle into thirds. Mark each third with the symbol 1/3.

Color 2/3 of the circle.



5

F 2

On the lines, list these fraction in order from smallest to largest:

1. 1/4 1/8
   3/4 1/4
   2/3 1/2
   1/2 2/3
   1/8 3/4

2. Which is larger?
   1/3 or 1/8 1/3
   2/3 or 1/2 2/3

3

F 3

The equal sign (=) means "the same size as." Write another fraction that is the same size as each of these:

1/8 = 2/4

2/4 = 1/2

5/10 = 1/2

2/4 = 1/2

2/8 = 1/4

1/2 = 1/4

5

F 4

Add or subtract the following fractions. Watch the signs!

1. 1/4 1/8
3/4 1/4
2/3 1/2
1/2 2/3
1/8 3/4

2. Which is larger?
1/3 or 1/8 1/3
2/3 or 1/2 2/3

3

F 3 The equal sign (=) means "the same size as." Write another fraction that is the same size as each of these:

1/8 = 2/4
2/4 = 1/2
5/10 = 1/2

2/4 = 1/2
2/8 = 1/4
1/2 = 1/4

5

F 4 Add or subtract the following fractions. Watch the signs!

6/6 - 4/6 = 2/6
2/3 + 1/3 = 3/3
4/5 - 2/5 = 2/5

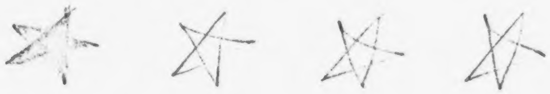
1/4 + 1/4 = 2/4
3/8 + 1/8 = 4/8
2/8 + 1/8 = 3/8

6

Name ____________________
Team ____________________
Teacher __________________
Date _____________________

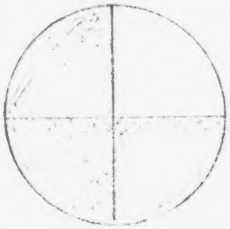
FRACTION POST-TEST - UNIT I FORM A

F. 1 Write a fraction to compare the number of shaded objects with the total number of objects:



ANSWER

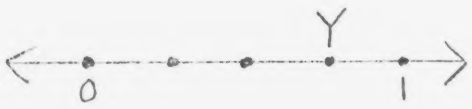
Write the fraction for the shaded region:



ANSWER

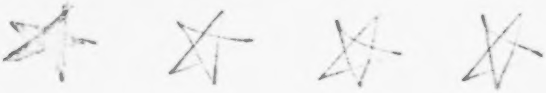
Name the fractional number labeled by Y on each of these number lines:

ANSWER



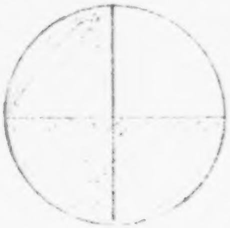
FRACTION POST-TEST - UNIT I FORM A

F. 1 Write a fraction to compare the number of shaded objects with the total number of objects:



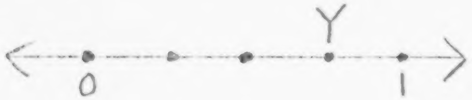
ANSWER

Write the fraction for the shaded region:



ANSWER

Name the fractional number labeled by Y on each of these number lines:



ANSWER

1. Divide this circle into eighths. Mark each eighth with the symbol 1/8.

2. Color six-eighths of this circle with your pencil.

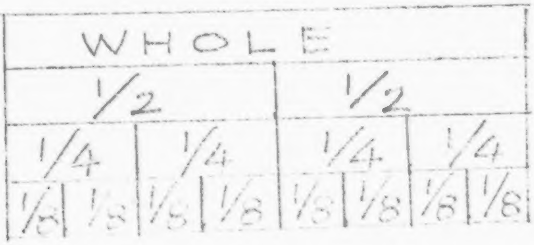
F 2 On the lines, list these fractions in order from smallest to largest:

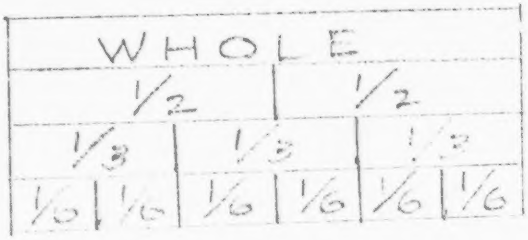
1. 2/3 ______
   3/4 ______
   1/4 ______
   1/8 ______
   1/2 ______

2. Which is smaller?
   1/8 or 1/6? ________
   1/3 or 1/8? ________

3

F 3 Use these tables to help you complete the equations:


WHOLE
1/2
1/2
1/4
1/4
1/4
1/4
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8


WHOLE
1/2
1/2
1/3
1/3
1/3
1/6
1/6
1/6
1/6
1/6
1/6

1/2 = __/4__

6/8 = __/4__

1/4 = __/8__

2/6 = __1/__

2/3 = __4/__

3/6 = __/2__

6

F 4 Add or subtract the following fractions. Watch the signs!

2/8 + 1/8 =

2/3 - 1/3 =

1. 2/3 ______
3/4 ______
1/4 ______
1/8 ______
1/2 ______

2. Which is smaller?
1/8 or 1/6? ________
1/3 or 1/8? ________

3

F 3 Use these tables to help you complete the equations:

<table>
<tr><td colspan="8">WHOLE</td></tr>
<tr><td colspan="4">1/2</td><td colspan="4">1/2</td></tr>
<tr><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td></tr>
<tr><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td></tr>
</table>

<table>
<tr><td colspan="6">WHOLE</td></tr>
<tr><td colspan="3">1/2</td><td colspan="3">1/2</td></tr>
<tr><td colspan="2">1/3</td><td colspan="2">1/3</td><td colspan="2">1/3</td></tr>
<tr><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td></tr>
</table>

1/2 = ___/4
6/8 = ___/4
1/4 = ___/8

2/6 = 1/___
2/3 = 4/___
3/6 = ___/2

6

F 4 Add or subtract the following fractions. Watch the signs!

3/8 + 1/8 = _____
2/3 - 1/3 = _____

4/6 - 1/6 = _____
1/4 + 2/4 = _____

6/8 + 1/8 = _____
4/5 - 2/5 = _____

6

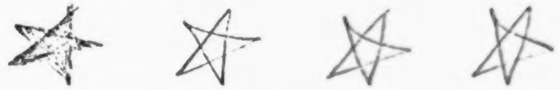
KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTION   POST-TEST - UNIT I   FORM A

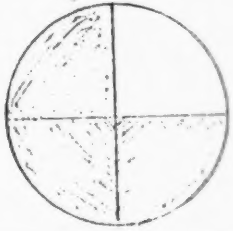
F 1

Write a fraction to compare the number of shaded objects with the total number of objects:



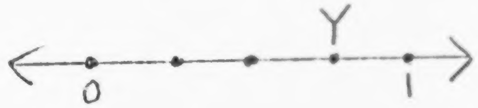
ANSWER
1/4

Write the fraction for the shaded region:



ANSWER
3/4

Name the fractional number labeled by Y on each of these number lines:



ANSWER
3/4

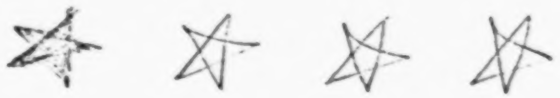
Divide this circle into eighths

Date ______

FRACTION POST-TEST - UNIT I FORM A

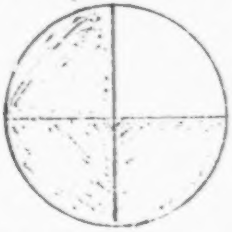
F 1

Write a fraction to compare the number of shaded objects with the total number of objects:



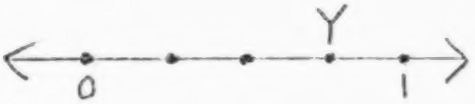
ANSWER
1/4

Write the fraction for the shaded region:



ANSWER
3/4

Name the fractional number labeled by Y on each of these number lines:

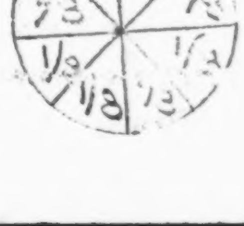


ANSWER
3/4

---

1. Divide this circle into eighths. Mark each eighth with the symbol 1/8.

2. Color six-eighths of this circle with your pencil.



5

FRACTION POST-TEST - UNIT I FORM A

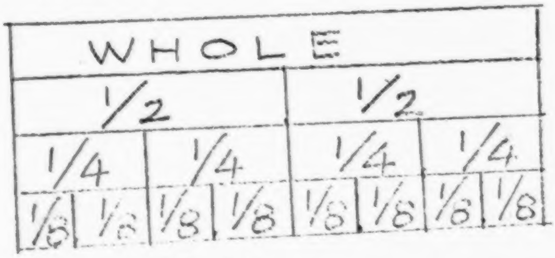
F 2 On the lines, list these fractions in order from smallest to largest:

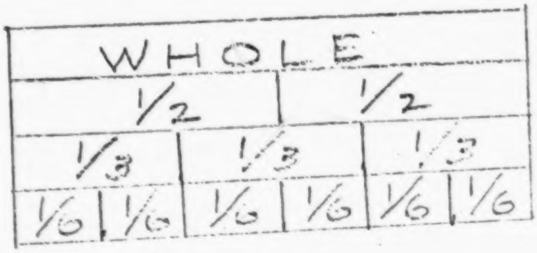
1. 2/3 4
3/4 5
1/4 2
1/8 1
1/2 3

2. Which is smaller?
1/8 or 1/6? 1/8
1/3 or 1/8? 1/8

3

3 Use these tables to help you complete the equations:


WHOLE
1/2
1/2
1/4
1/4
1/4
1/4
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8


WHOLE
1/2
1/2
1/3
1/3
1/3
1/6
1/6
1/6
1/6
1/6
1/6

1/2 = 2/4
6/8 = 3/4
1/4 = 2/8

2/6 = 1/3
2/3 = 4/6
3/6 = 1/2

6

4 Add or subtract the following fractions. Watch the signs!

From smallest to largest.

1. 2/3 4
   3/4 5
   1/4 2
   1/8 1
   1/2 3

2. Which is smaller?
   1/8 or 1/6? 1/8
   1/3 or 1/8? 1/8

— 3

3 Use these tables to help you complete the equations:

<table>
<tr><td colspan="8">WHOLE</td></tr>
<tr><td colspan="4">1/2</td><td colspan="4">1/2</td></tr>
<tr><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td></tr>
<tr><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td></tr>
</table>

<table>
<tr><td colspan="6">WHOLE</td></tr>
<tr><td colspan="3">1/2</td><td colspan="3">1/2</td></tr>
<tr><td colspan="2">1/3</td><td colspan="2">1/3</td><td colspan="2">1/3</td></tr>
<tr><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td></tr>
</table>

1/2 = 2/4
6/8 = 3/4
1/4 = 2/8

2/6 = 1/3
2/3 = 4/6
3/6 = 1/2

— 6

4 Add or subtract the following fractions. Watch the signs!

3/8 + 1/8 = 4/8
4/6 - 1/6 = 3/6
6/8 + 1/8 = 7/8

2/3 - 1/3 = 1/3
1/4 + 2/4 = 3/4
4/5 - 2/5 = 2/5

— 6

Name ________________________
Team ___
Teacher ____________________
Date _______________________

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 5 Look at this example:

{▲ ▲ △ △ △} = 2/5

The 5 names the number of objects in the set. This is called the _____________.

The 2 names the number of objects being compared to the total set. This is called a _______________.

---- 2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = _____ 1/8+2/8+2/8 = ___X 1/8 = ___
9 X 1/10= _____ 1/7+3/7+2/7 = ___X 1/7 = ___

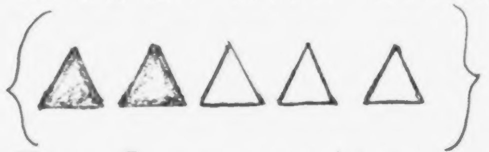
---- 6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples are green."

Bill said, "Two-eighths of the apples

F 5 Look at this example:



= 2/5

The 5 names the number of objects in the set. This is called the ____________.

The 2 names the number of objects being compared to the total set. This is called a ______________.

2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = _____ 1/8+2/8+2/8 = ___X 1/8 = ___

9 X 1/10= _____ 1/7+3/7+2/7 = ___X 1/7 = ___

6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples are green."

Bill said, "Two-eighths of the apples are green."

Are Brenda and Bill talking about the same number of apples? ________

******

Sandra said, "Six-eighths of the oranges are green."

Margo said, "Two-thirds of the oranges are green."

Are Sandra and Margo talking about the same number of oranges? ________

2

F 8 Complete these equations:

$4/8 = \frac{\square \times 1}{\square \times 2}$ $8/12 = \frac{4 \times \square}{4 \times \square}$

$9/12 = \frac{\square \times 3}{\square \times 4}$ $6/9 = \frac{3 \times \square}{3 \times \square}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$ $3/6 = \frac{\square \div 3}{\square \div 3} = 1/2$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$ $4/10 = \frac{\square \div 2}{10 \div \square} = 2/5$

$\frac{\quad\quad}{8}$

F 9 Write each fraction in the simplest form:

6/36 = /   6/15 = /

10/24 = /   12/18 = /

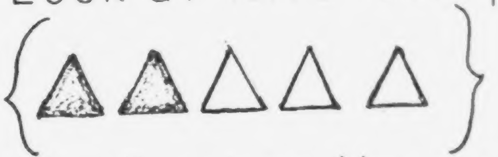
$\frac{\quad\quad}{4}$

KEY

Name____________________
Team ____________________
Teacher____________________
Date____________________

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 5 Look at this example:

 = 2/5

The 5 names the number of objects in the set. This is called the denominator.

The 2 names the number of objects being compared to the total set. This is called a numerator.

____
2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = 3/5 1/8+2/8+2/8 = 6/8 X 1/8 = 6/8
9 X 1/10 = 9/10 1/7+3/7+2/7 = 6/7 X 1/7 = 7/7 or 1

____
6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples

F 5 Look at this example:

{▲ ▲ △ △ △} = 2/5

The 5 names the number of objects in the set. This is called the denominator.

The 2 names the number of objects being compared to the total set. This is called a numerator.

2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = 3/5 1/8+2/8+2/8 = 6/8 X 1/8 = 6/8
9 X 1/10 = 9/10 1/7+3/7+2/7 = 6/7 X 1/7 = 7/7 or 1

6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples are green."

Bill said, "Two-eighths of the apples are green."

Are Brenda and Bill talking about the same number of apples? yes

******

Sandra said, "Six-eighths of the oranges are green."

Margo said, "Two-thirds of the oranges are green."

Are Sandra and Margo talking about the same number of oranges? no

----

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 8

Complete these equations:

$4/8 = \frac{\boxed{4} \times 1}{\boxed{4} \times 2}$ $8/12 = \frac{4 \times \boxed{2}}{4 \times \boxed{3}}$

$9/12 = \frac{\boxed{3} \times 3}{\boxed{3} \times 4}$ $6/9 = \frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\boxed{3}}{\boxed{4}}$ $3/6 = \frac{\boxed{3} \div 3}{\boxed{6} \div 3} = 1/2$

$9/12 = \frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$ $4/10 = \frac{\boxed{4} \div 2}{10 \div \boxed{2}} = 2/5$

$\frac{\quad}{8}$

F 9

Write each fraction in the simplest form:

6/36 = 1/6   6/15 = 2/5

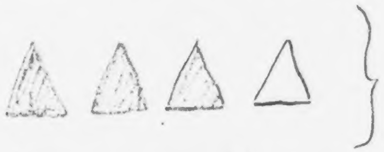
10/24 = 5/12   12/18 = 2/3

$\frac{\quad}{4}$

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

RACTIONS POST-TEST - UNIT II FORM A

5 Look at this example:



= 3/4

The 4 names the number of objects in the set.

The 3 names the number of objects being compared to the total set.

Which number is the denominator? _____

Which number is the numerator? _____

2

6 Rename each numeral in a simpler form:

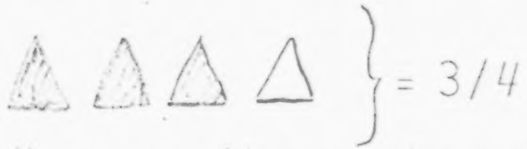
3 X 1/5 = ____
9 X 1/10 = ____

1/8 + 2/8 + 2/8 = ___ X 1/8 = ____
1/7 + 3/7 + 2/7 = ___ X 1/7 = ____

6

F 7 Solve the following problems:

F 5 Look at this example:



The 4 names the number of objects in the set.

The 3 names the number of objects being compared to the total set.

Which number is the denominator? ____

Which number is the numerator? ____

2

---

6 Rename each numeral in a simpler form:

3 X 1/5 = ____

9 X 1/10 = ____

1/8 + 2/8 + 2/8 = ___ X 1/8 = ____

1/7 + 3/7 + 2/7 = ___ X 1/7 = ____

6

F 7 Solve the following problems:

Sally said, "One-fourth of the apples are green."

Sam said, "Two-eighths of the apples are green."

Are Sally and Sam talking about the same number of apples?

____

7 cont'd.

Sandra said, "Six-eighths of the bananas are green."

Margo said, "Two-thirds of the bananas are green."

Are Sandra and Margo talking about the same number of bananas?

2 ________

F 8

Complete these equations:

$4/8 = \frac{\square \times 1}{\square \times 2}$

$8/12 = \frac{4 \times \square}{4 \times \square}$

$9/12 = \frac{\square \times 3}{\square \times 4}$

$6/9 = \frac{3 \times \square}{3 \times \square}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$

$3/6 = \frac{\square \div 3}{\square \div 3} = 1/2$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$

$4/10 = \frac{\square \div 2}{10 \div 2} = 2/5$

8

Margo said, "Two-thirds of the bananas are green."

Are Sandra and Margo talking about the same number of bananas?

2 ______

F 8

Complete these equations:

$4/8 = \frac{\square \times 1}{\square \times 2}$ $8/12 = \frac{4 \times \square}{4 \times \square}$

$9/12 = \frac{\square \times 3}{\square \times 4}$ $6/9 = \frac{3 \times \square}{3 \times \square}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$ $3/6 = \frac{\square \div 3}{\square \div 3} = 1/2$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$ $4/10 = \frac{\square \div 2}{10 \div 2} = 2/5$

$\overline{8}$

F 9

Write each fraction in the simplest form:

6/36 = 6/15 =

10/24 = 12/18 =

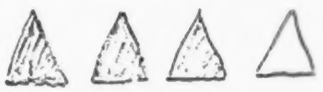
$\overline{4}$

KEY

Name ______________________
Team ______________________
Teacher ____________________
Date ______________________

FRACTIONS POST-TEST - UNIT II FORM A

F 5 Look at this example:



= 3/4

The 4 names the number of objects in the set.

The 3 names the number of objects being compared to the total set.

Which number is the denominator? 4

Which number is the numerator? 3

2

I 6 Rename each numeral in a simpler form:

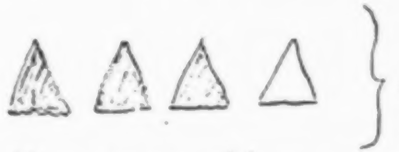
3 X 1/5 = 3/5 1/8 + 2/8 + 2/8 = 5/8 X 1/8 = 5/8

9 X 1/10 = 9/10 1/7 + 3/7 + 2/7 = 6/7 X 1/7 = 6/7

6

F 7 Solve the following problems:

F 5 Look at this example:



The 4 names the number of objects in the set.

The 3 names the number of objects being compared to the total set.

Which number is the denominator? 4

Which number is the numerator? 3

2

I 6 Rename each numeral in a simpler form:

3 X 1/5 = 3/5

9 X 1/10 = 9/10

1/8 + 2/8 + 2/8 = 5/8 X 1/8 = 5/8

1/7 + 3/7 + 2/7 = 6/7 X 1/7 = 6/7

5

F 7 Solve the following problems:

Sally said, "One-fourth of the apples are green."

Sam said, "Two-eighths of the apples are green."

Are Sally and Sam talking about the same number of apples?

yes

F 7 cont'd.

Sandra said, "Six-eighths of the bananas are green."

Margo said, "Two-thirds of the bananas are green."

Are Sandra and Margo talking about the same number of bananas?

no

2

F 8

Complete these equations:

$4/8 = \frac{\boxed{4} \times 1}{\boxed{4} \times 2}$ $8/12 = \frac{4 \times \boxed{2}}{4 \times \boxed{3}}$

$9/12 = \frac{\boxed{3} \times 3}{\boxed{3} \times 4}$ $6/9 = \frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\boxed{3}}{\boxed{4}}$ $3/6 = \frac{\boxed{3} \div 3}{\boxed{6} \div 3} = 1/2$

$9/12 = \frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$ $4/10 = \frac{\boxed{4} \div 2}{10 \div 2} = 2/5$

8

F 9

Write each fraction in the simplest form:

Margo said, "Two-thirds of the bananas are green."

Are Sandra and Margo talking about the same number of bananas?

no

2

F 8

Complete these equations:

$4/8 = \frac{\boxed{4} \times 1}{\boxed{4} \times 2}$

$8/12 = \frac{4 \times \boxed{2}}{4 \times \boxed{3}}$

$9/12 = \frac{\boxed{3} \times 3}{\boxed{3} \times 4}$

$6/9 = \frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\boxed{3}}{\boxed{4}}$

$3/6 = \frac{\boxed{3} \div 3}{\boxed{6} \div 3} = 1/2$

$9/12 = \frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$

$4/10 = \frac{\boxed{4} \div 2}{10 \div 2} = 2/5$

8

9

Write each fraction in the simplest form:

6/36 = 1/6

6/15 = 2/5

10/24 = 5/12

12/18 = 2/3

4

3

Name ____________________
Team ____________________
Teacher __________________
Date ____________________

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 10 Complete these:

$$\begin{array}{r} 3/9 \\ +\,2/9 \\ \hline \end{array} \qquad \begin{array}{r} 1/4 \\ +\,2/4 \\ \hline \end{array} \qquad \begin{array}{r} 5/6 \\ -\,3/6 \\ \hline \end{array} \qquad \begin{array}{r} 6/7 \\ -\,2/7 \\ \hline \end{array}$$

4

F 11 Rewrite these fractions as a mixed fraction:

8/5 = ____ 7/3 = ____ 18/8 = ____

3

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 ○ 1/3 4/7 ○ 8/14 2/3 ○ 2/7

3

F 13 Complete each set of equivalent fractions:
(Beware!)

1/2 2/4 /12 8/16 /18 10/20

2/3 4/6 /9 /12 /18 14/21

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7

$\frac{\quad}{4}$

F 11 Rewrite these fractions as a mixed fraction:

8/5 = ____ 7/3 = ____ 18/8 = ____

$\frac{\quad}{3}$

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 ○ 1/3 4/7 ○ 8/14 2/3 ○ 2/7

$\frac{\quad}{3}$

F 13 Complete each set of equivalent fractions:
(Beware!)

1/2 2/4 /12 /16 /18 /20

2/3 4/6 /9 /12 /18 /21

$\frac{\quad}{8}$

F 14 Name the sum and/or difference:

1/3	4/7	8/9	7/12
+2/6	+3/4	-2/3	-1/4

$\frac{\quad}{4}$

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 15 Name the sum and/or difference:

4 1/3	1 7/10	10 4/7	9 4/12
+1 2/9	+4 3/5	- 2 1/5	-4 4/6

4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7
5/9	3/4	2/6 = 1/3	4/7

___ 4

F 11 Rewrite these fractions as a mixed fraction:

8/5 = 1 3/5 7/3 = 2 1/3 18/8 = 2 2/8 = 2 1/4

___ 3

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 (>) 1/3 4/7 (=) 8/14 2/3 (=) 2/7

___

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7
5/9	3/4	2/6 1/3	4/7

4

F 11 Rewrite these fractions as a mixed fraction:

8/5 = 1 3/5 7/3 = 2 1/3 18/8 = 2 2/8 2 1/4

3

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 > 1/3 4/7 = 8/14 2/3 = 2/7

3

F 13 Complete each set of equivalent fractions: (Beware!)

{1/2 2/4} {6/12 3/16} {9/18 10/20}

{2/3 4/6} {6/9 8/12} {12/18 14/21}

8

F 14 Name the sum and/or difference:

1/3	4/7	8/9	7/12
+2/6	+3/4	-2/3	-1/4
2/3	1 9/22	2/9	1/3

4

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 15 Name the sum and/or difference:

	4 1/3	1 7/10	10 4/7	9 4/12
	+1 2/9	+4 3/5	- 2 1/5	-4 4/6
$\frac{\quad}{4}$	5 5/9	5 13/10	8 13/35	4 1/2

Name ____________________
Team ____________________
Teacher __________________
Date ____________________

FRACTION   POST - TEST - UNIT III   FORM A

F. 10 Complete these:

6/9	3/4	6/6	8/7
+ 2/9	+ 2/4	-3/6	-1/7

___/4

F 11 Rewrite these fractions as a mixed fraction:

7/5 =   6/4 =   18/8 =

___/3

12 Complete the number sentences. Write > or < or = in each circle:

2/3 ○ 2/7   4/7 ○ 8/14   1/2 ○ 1/3

___/3

FRACTION   POST - TEST - UNIT III   FORM A

F. 10 Complete these:

6/9   3/4   6/6   8/7

+ 2/9   + 2/4   -3/6   -1/7

___
4

F 11 Rewrite these fractions as a mixed fraction:

7/5 =   6/4 =   18/8 =

___
3

F 12 Complete the number sentences. Write > or <
in each circle:

2/3 ○ 2/7 | 4/7 ○ 8/14 | 1/2 ○ 1/3

___
3

F 13 Complete each set of equivalent fractions:
Beware!!

{1/2   2/4} {6/12   8/16} {9/18   10/20}

{2/3   4/6} {6/9   8/12} {12/18   14/21}

___
8

F 14 Name the sum or difference:

4/7   1/3   7/12   8/9

+3/4   + 2/6   -1/4   - 2/3

___
4

FRACTION POST-TEST - UNIT III FORM A

F 15

$$1\frac{2}{9} + 4\frac{1}{3} \qquad 4\frac{3}{5} + 1\frac{7}{10} \qquad 10\frac{4}{7} - 2\frac{1}{5} \qquad 9\frac{4}{12} - 4\frac{4}{6}$$

$\overline{4}$

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTION POST - TEST - UNIT III FORM A

F. 10 Complete these:

6/9	3/4	6/6	8/7
+ 2/9	+ 2/4	-3/6	-1/7
8/9	5/4	3/6	7/7 = 1

4

F 11 Rewrite these fractions as a mixed fraction:

7/5 = 1 2/5   6/4 = 1 2/4 = 1 1/2   18/8 = 2 2/3 = 2 1/4

3

12 Complete the number sentences. Write > or < or = in each circle:

2/3 (>) 2/7   4/7 (=) 8/14   1/2 (>) 1/3

3

13 Complete each set of equivalent fractions:
Beware!!

FRACTION POST - TEST - UNIT III FORM A

F. 10 Complete these:

$$\begin{array}{r} 6/9 \\ +\ 2/9 \\ \hline 8/9 \end{array} \qquad \begin{array}{r} 3/4 \\ +\ 2/4 \\ \hline 5/4 \end{array} \qquad \begin{array}{r} 6/6 \\ -\ 3/6 \\ \hline 3/6 \end{array} \qquad \begin{array}{r} 8/7 \\ -\ 1/7 \\ \hline 7/7 = 1 \end{array}$$

___ 4

F 11 Rewrite these fractions as a mixed fraction:

7/5 = $1\frac{2}{5}$ 6/4 = $1\frac{2}{4}$ = $1\frac{1}{2}$ 18/8 = $2\frac{2}{3}$ = $2\frac{1}{4}$

___ 3

I 12 Complete the number sentences. Write > or < or = in each circle:

2/3 ◯> 2/7 ‖ 4/7 ◯= 8/14 ‖ 1/2 ◯> 1/3

___ 3

F 13 Complete each set of equivalent fractions: Beware!!

{1/2 2/4} {6/12 3/16} {9/18 10/20}

{2/3 4/6} {6/9 8/12} {12/18 14/21}

___ 8

F 14 Name the sum or difference:

$$\begin{array}{r} 4/7 \\ +3/4 \\ \hline \frac{37}{28} = 1\frac{9}{28} \end{array} \qquad \begin{array}{r} 1/3 \\ \div\ 2/6 \\ \hline \frac{4}{6} = \frac{2}{3} \end{array} \qquad \begin{array}{r} 7/12 \\ -1/4 \\ \hline \frac{4}{12} = \frac{1}{3} \end{array} \qquad \begin{array}{r} 8/9 \\ -\ 2/3 \\ \hline \frac{2}{9} \end{array}$$

___ 4

FRACTION POST-TEST - UNIT III FORM A

F 15

$$\begin{array}{r} 1\frac{2}{9} = \frac{2}{9} \\ + 4\frac{1}{3} = \frac{3}{9} \\ \hline \boxed{5\frac{5}{9}} \end{array}$$

$$\begin{array}{r} 4\frac{3}{5} = \frac{6}{10} \\ + 1\frac{7}{10} = \frac{7}{10} \\ \hline \boxed{5\frac{13}{10}} \end{array}$$

$$\begin{array}{r} 10\frac{4}{7} = \frac{20}{35} \\ - 2\frac{1}{5} = \frac{7}{35} \\ \hline \boxed{8\frac{13}{35}} \end{array}$$

$$\begin{array}{r} 9\frac{4}{12} = \frac{4}{12} \\ - 4\frac{4}{6} = \frac{[illegible]}{12} \\ \hline \boxed{4\frac{1}{2}} \end{array}$$

____ 11

FORM B

NAME ____________________

TEAM ________ TEACHER ________________

DATE ____________________

FORM A or B (circle one)

SETS

	Pre-Test	Program	Post-Test	Comment
S1 Listing and describing sets	___ 2		___ 2	
S2 Braces	___ 1		___ 1	
S3 Equivalent sets	___ 2		___ 2	
S4 Equal sets	___ 1		___ 1	
S5 Empty sets	___ 1		___ 1	
S6 Cardinal numbers	___ 1		___ 1	
S7 Sub-sets	___ 2		___ 2	
S8 Universal sets	___ 2		___ 2	

S1 Listing and describing sets	— 2		— 2	
S2 Braces	— 1		— 1	
S3 Equivalent sets	— 2		— 2	
S4 Equal sets	— 1		— 1	
S5 Empty sets	— 1		— 1	
S6 Cardinal numbers	— 1		— 1	
S7 Sub-sets	— 2		— 2	
S8 Universal sets	— 2		— 2	
S9 Number patterns	— 3		— 3	
S10 Points	— 3		— 3	
S11 Finite and Infinite	— 3		— 3	
Supplementary work				

Name________________
Team________________
Teacher______________
Date________________

SETS PRETEST FORM B

S1 1. Show the set by listing the objects in it.

The first 5 letters in the alphabet:

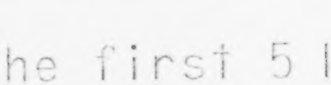
____

2. Show the set by describing the objects in it: {peas, beans, corn, spinach}

____

____
2

S2 Use the correct symbols to show these things are a set:

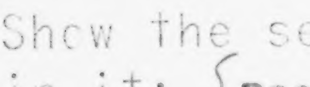
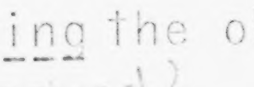


____

____
1

S3 1.

Are these two sets equivalent?

 __________ 

S1 1. Show the set by listing the objects in it.

The first 5 letters in the alphabet:

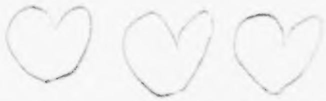
____

2. Show the set by describing the objects in it: {peas, beans, corn, spinach}

____

____
2

S2 Use the correct symbols to show these things are a set:

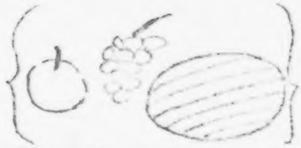


____

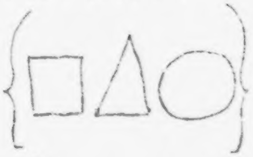
____
1

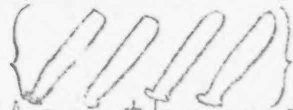
S3 1.

Are these two sets equivalent?



____
Yes or No



2. 

{a b c d e}

Are these two sets equivalent?

____
2

____
Yes or No

SETS PRETEST

S4

{◇ □ ○} {○ □ ◇}

Are these two sets equal? ____________
Yes or No

1

S5

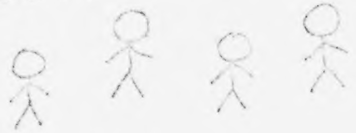
The set of all elephants in the classroom is an ____________________
equal, empty, equivalent

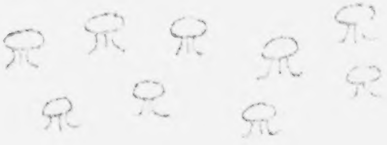
set.

1

S6

Name the cardinal number for each set:





n (A) = ____ n (H) = ____

1

S7

Here is a set of letters from the alphabet: e, a, k, b, x, i, z, o, u, m, d

1. List the subset letters that are vowels.

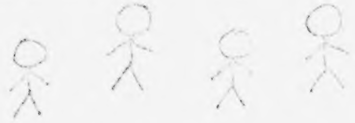
___ ___ ___ ___ ___

2. List the subset letters that

S5 The set of all elephants in the classroom is an ____________________
equal, empty, equivalen
set.

____
1

S6 Name the cardinal number for each set:



n (A) = ___   n (H) = ___

____
1

S7 Here is a set of letters from the alphabet: e, a, k, b, x, i, z, o, u, m, d

1. List the subset letters that are vowels.

___ ___ ___ ___ ___

2. List the subset letters that are not vowels.

___ ___ ___ ___ ___ ___

____
2

S8 1. Name the universal set for:
a, b, c, d ________

2. If the universal set is 6, how would you show 9?

____

____
2

SETS PRETEST

S9

1. Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
2	3				

2. Find the missing numbers:

(1,2) (2,3) (3, __) (4,5)

(__, 6) (6, ___)

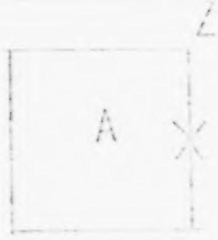
$\frac{\quad}{3}$

S 10

Name the points inside this square: ____

Name the points on this square: ____

Name the points outside this square: ____



$\frac{\quad}{3}$

S 11

Tell if the set is finite or infinite:

1. The words in this sentence.

____

2. The stories that can be read.

____

3. The numbers greater than 100.

____

$\frac{\quad}{3}$

KEY

Name________________
Team ________________
Teacher________________
Date ________________

SETS PRETEST FORM B

S1

1. Show the set by listing the objects in it.

The first 5 letters in the alphabet:

{a, b, c, d, e}

2. Show the set by describing the objects in it: {peas, beans, corn, spinach}

vegetables

____
2

S2

Use the correct symbols to show these things are a set:

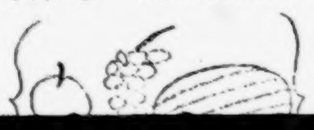
♡ ♡ ♡ {♡ ♡ ♡}

____
1

S3

1\.

Are these two sets equivalent?



yes {□ △ ○}

S1

1. Show the set by listing the objects in it.

The first 5 letters in the alphabet:

{a, b, c, d, e}

2. Show the set by describing the objects in it: {peas, beans, corn, spinach}

vegetables

2

S2

Use the correct symbols to show these things are a set:

♡ ♡ ♡

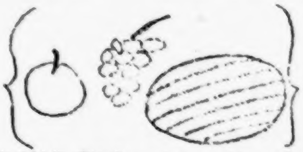
{♡ ♡ ♡}

1

S3

1\.

Are these two sets equivalent?

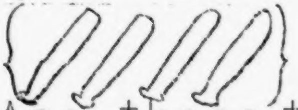


yes

Yes or No

{□ △ ○}

2\.



{a b c d e}

Are these two sets equivalent?

no

Yes or No

2

SETS PRETEST

S4

{◇□○} {○□◇}

Are these two sets equal? yes
Yes or No

1

S5

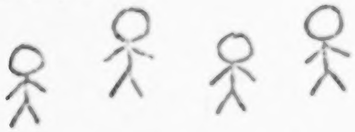
The set of all elephants in the classroom is an ____________
equal, [✓ empty], equivalen

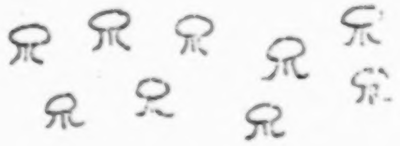
set.

1

S6

Name the cardinal number for each set:





n (A) = 4

n (H) = 9

1

S7

Here is a set of letters from the alphabet: e, a, k, b, x, i, z, o, u, m, d

1. List the subset letters that are vowels.

a e i o u

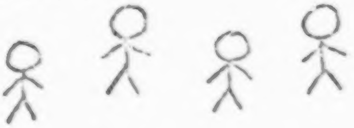
2. List the subset letters that

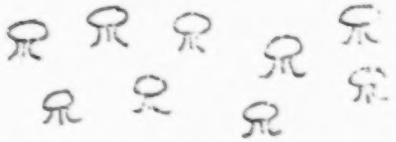
1

S5 The set of all elephants in the classroom is an ____________________
equal, [✓ empty], equivalen
set.

____ 1

S6 Name the cardinal number for each set:





n (A) = _4_   n (H) = _9_

____ 1

S7 Here is a set of letters from the alphabet: e, a, k, b, x, i, z, o, u, m, d

1. List the subset letters that are vowels.

   _a_ _e_ _i_ _o_ _u_

2. List the subset letters that are not vowels.

   _k_ _b_ _x_ _z_ _d_ _m_

____ 2

S8 1. Name the universal set for:
a, b, c, d ________

2. If the universal set is 6, how would you show 9?

____

____ 2

SETS PRETEST

S9

1. Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
2	3	4	5	6	7

2. Find the missing numbers:

(1,2) (2,3) (3, 4) (4,5)

(5, 6) (6, 7)

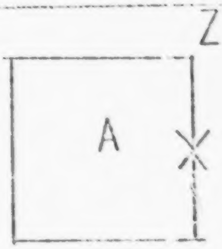
3

S 10

Name the points inside this square: A

Name the points on this square: X

Name the points outside this square: Z



3

S 11

Tell if the set is finite or infinite:

1. The words in this sentence.
finite

2. The stories that can be read.
infinite

3. The numbers greater than 100.
infinite

3

Name____________________
Team____________________
Teacher__________________
Date____________________

SETS POST-TEST FORM B

S 1

Show the set by listing the objects in it.

1. The last 4 letters of the alphabet:

{____________}

Show the set by describing the objects in it:

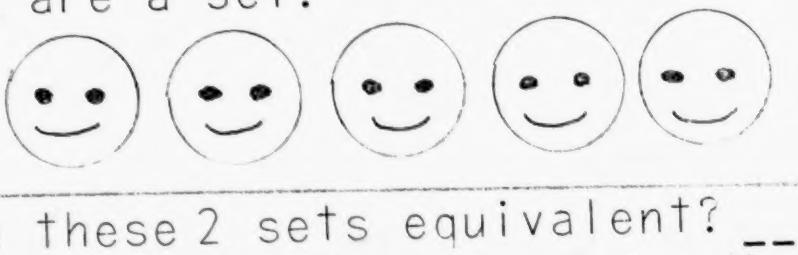
2. {bananas, oranges, apples, pears, grapes and plums}

____

____
2

S 2

Use the correct symbols to show these things are a set:



____
1

S 3

1. Are these 2 sets equivalent? ________
Yes or No

S 1

Show the set by listing the objects in it.

1. The last 4 letters of the alphabet:

{ ____________ }

Show the set by describing the objects in it:

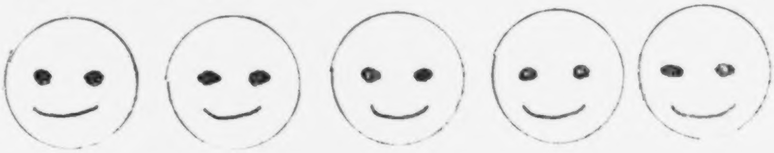
2. {bananas, oranges, apples, pears, grapes and plums}

____

____
2

S 2

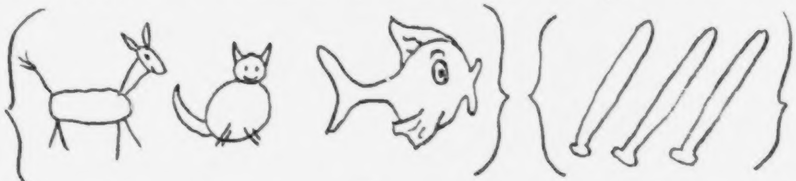
Use the correct symbols to show these things are a set:



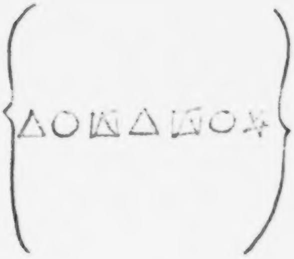
___
1

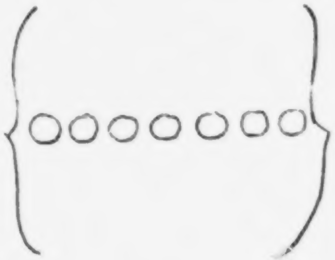
S 3

1. Are these 2 sets equivalent? ________
Yes or No



2. Are these 2 sets equivalent? _______
Yes or No





____
2

SETS POST-TEST

S4 (spring, summer) (summer, rain)
(fall, winter) (winter, spring)

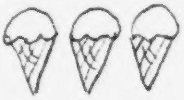
Are these two sets equal? -----------
Yes or No

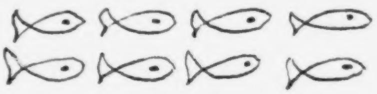
---- 1

S5 The set of all girls who are two inches tall is an -------------------------- set.
(equal, equivalent, empty)

---- 1

S6 Name the cardinal number for each set:





n (A) = ----- n (H) = -----

---- 1

S7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, o, v, d)

1. List the subset letters that are vowels:

--- --- --- --- ---

2. List the subset letters that are

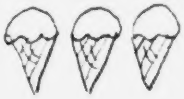
Yes or No

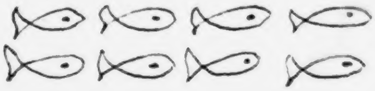
____
1

S5 The set of all girls who are two inches tall is an ______________________________ set.
(equal, equivalent, empty)

____
1

S6 Name the cardinal number for each set:





n (A) = _____ n (H) = _____

____
1

S7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, o, v, d)

1. List the subset letters that are vowels:

   ___ ___ ___ ___ ___

2. List the subset letters that are not vowels:

   ___ ___ ___ ___ ___ ___ ___

____
2

S8
1. Name the universal set for (1, 3, 5, 7, 9) ______________
2. If the universal set is 20, how would you show 25? ______________

____
2

SETS POST-TEST

S9

1. Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
5	6				

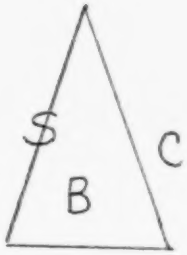
2. Find the missing numbers:

(___, 3) (3, 6) (6, ___)
(9, 12) (___, 15) (15, ___)

---- 3

S10

1. Name the points *inside* the triangle ____
2. Name the points *on* the triangle ____
3. Name the points outside the triangle ____



---- 3

S11

Tell if the set is finite or infinite:

1. Number greater than 20: __________
2. The students in Pueblo School today. __________
3. The grains of sand on our earth. __________

---- 3

KEY

Name____________________

Team____________________

Teacher__________________

Date____________________

SETS POST-TEST FORM B

S 1 Show the set by listing the objects in it.

1. The last 4 letters of the alphabet:

{w, x, y, z}

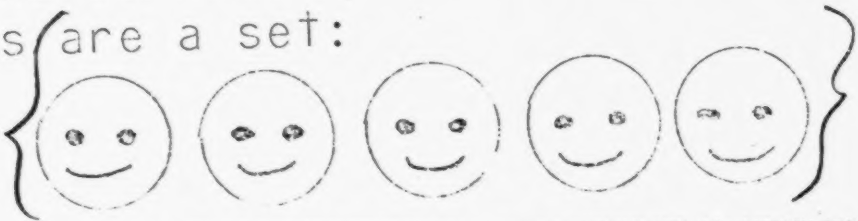
Show the set by describing the objects in it:

2. {bananas, oranges, apples, pears, grapes and plums}

fruit

____
2

S 2 Use the correct symbols to show these things are a set:



____
1

S 3 1. Are these 2 sets equivalent? yes
Yes or No

S 1 Show the set by listing the objects in it.

1. The last 4 letters of the alphabet:

{w, x, y, z}

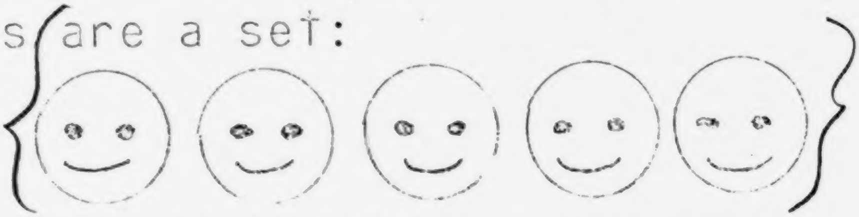
Show the set by describing the objects in it:

2. {bananas, oranges, apples, pears, grapes and plums}

fruit

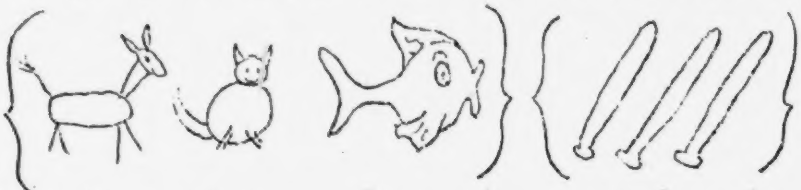
___ / 2

S 2 Use the correct symbols to show these things are a set:

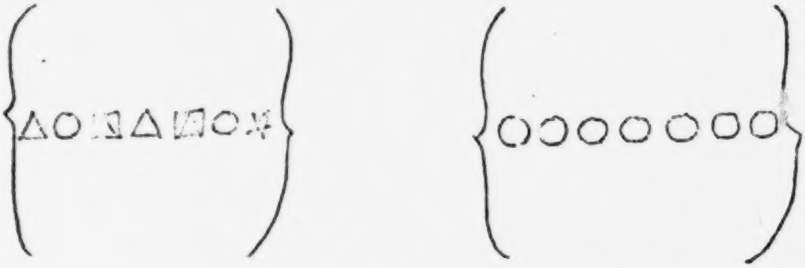


___ / 1

S 3 1. Are these 2 sets equivalent? yes
Yes or No



2. Are these 2 sets equivalent? yes
Yes or No



___ / 2

SETS POST-TEST

S4 (spring, summer) (summer, rain)
(fall, winter) (winter, spring)

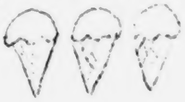
Are these two sets equal? no
Yes or No

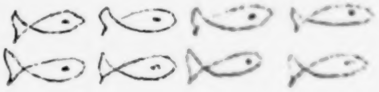
1

S5 The set of all girls who are two inches tall is an empty set.
(equal, equivalent, empty)

1

S6 Name the cardinal number for each set:





n (A) = 3   n (H) = 8

1

S7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, o, v, d)

1. List the subset letters that are vowels:

a e i o u

2. List the subset letters that are not vowels:

m k b x z v d

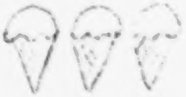
Yes or No

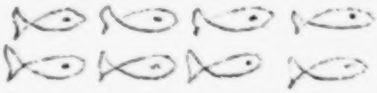
1

S5 The set of all girls who are two inches tall is an ___empty___ set.
(equal, equivalent, empty)

1

S6 Name the cardinal number for each set:





n (A) = __3__ n (H) = __8__

1

S7 Here is a set of letters from the alphabet:

(m, e, u, a, k, b, x, i, z, o, v, d)

1. List the subset letters that are vowels:

_a_ _e_ _i_ _o_ _u_

2. List the subset letters that are not vowels:

_m_ _k_ _b_ _x_ _z_ _v_ _d_

2

S8 1. Name the universal set for (1, 3, 5, 7, 9) _odd numbers_

2. If the universal set is 20, how would you show 25? _outside the brackets_

2

SETS POST-TEST

S9

1. Complete these number patterns by filling in the blank spaces:

+	1	2	3	4	5
5	6	7	8	9	10

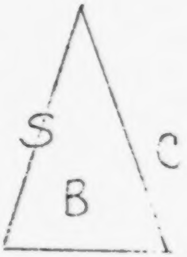
2. Find the missing numbers:

(0, 3) (3, 6) (6, 9)
(9, 12) (12, 15) (15, 18)

3

S10

1. Name the points
   inside the triangle B
2. Name the points
   on the triangle S
3. Name the points
   outside the triangle C



3

S11

Tell if the set is finite or infinite:

1. Number greater than 20: finite
2. The students in Pueblo School today. finite

+	1	2	3	4	5
5	6	7	8	9	10

2. Find the missing numbers:

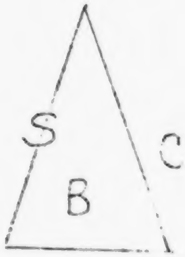
(0, 3) (3, 6) (6, 9)

(9, 12) (12, 15) (15, 18)

3

S10

1. Name the points *inside* the triangle B
2. Name the points *on* the triangle S
3. Name the points outside the triangle C



3

S11

Tell if the set is *finite* or *infinite*:

1. Number greater than 20: finite
2. The students in Pueblo School today. finite
3. The grains of sand on our earth. finite

3

Name______________________________

Team______________________________

Teacher___________________________

Date______________________________

FORM A or B (Circle one)

PLACE VALUE

	Pre-Test	Program	Post-Test	Comment
P.V. 1 Concept of 10	____ 6		____ 6	
P.V. 2 Comparisons Renaming 1's, 10's. 100's	____ 6		____ 6	
P.V. 3 Comparisons Renaming 1000's, 10,000's, 100,000	____ 6		____ 6	
P.V. 4 Renaming millions and billions	____ 7		____ 7	
P.V. 5 Writing numbers 1 to 1 million	____ 6		____ 6	
Supplementary Work				
Supplementary Work				

NAME ______________________

TEACHER & TEAM ______________________

DATE______________________

Place Value PRE-test Form B

PV 1
(1)

1. FOR EACH SET WRITE THE NUMBER OF ONES AND TENS SHOWN.

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

____TENS ___ONES

△△△△△△
○○○○

____TENS ___ONES

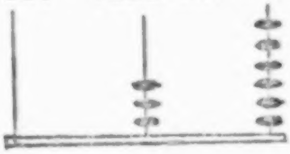
2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

9 TENS 4 ONES

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES?______HOW MANY TENS?_____



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

KEY: △ = TEN ○ = ONE

△ △ △ △ ○ ○ ○ ○ ○ ○ ○	△ △ △ △ △ △ ○ ○ ○ ○

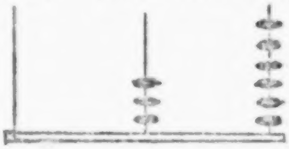
____TENS ___ONES ____TENS ___ONES

2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

9 TENS 4 ONES 6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES?______HOW MANY TENS?_____



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

___
6

PV 2
(2)

1. RENAME THE NUMBERS.

3 TENS 4 ONES ____________

7 HUNDREDS 0 TENS 6 ONES ____________

2. WRITE THE NUMBER THAT IS *100* MORE THAN 486 ________________

3. CIRCLE THE LARGEST NUMBER: 468 648 864 846 486

CIRCLE THE SMALLEST NUMBER: 343 334 452 523 342

4. HOW MANY CENTS IN TWO DOLLARS, FOUR DIMES, AND THREE PENNIES?

____

___
6

PV 3
(4)

1. RENAME THE NUMBERS.

8,264 = ______THOUSANDS _____HUNDREDS ______TENS ____ONES

31,057 = _____TEN THOUSANDS _____THOUSANDS _____HUNDREDS ____TENS _____ONES

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

____

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 6,534 6,495

CIRCLE THE SMALLEST NUMBER: 93,324 94,456 93,681 96,524 93,342

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS________ THOUSANDS________ONES_____ HUNDREDS____

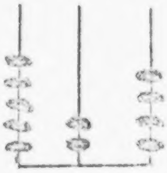
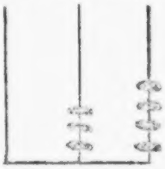
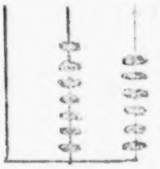
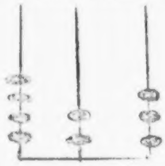
6

PV 4
(5)

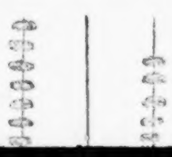
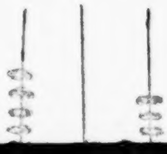
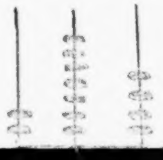
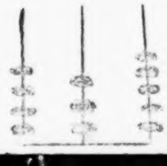
1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES
38	186	14	141
2	205	200	203

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN

____

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

____

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 6,534 6,495

CIRCLE THE SMALLEST NUMBER: 93,324 94,456 93,681 96,524 93,342

6

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS______ THOUSANDS______ ONES____ HUNDREDS____

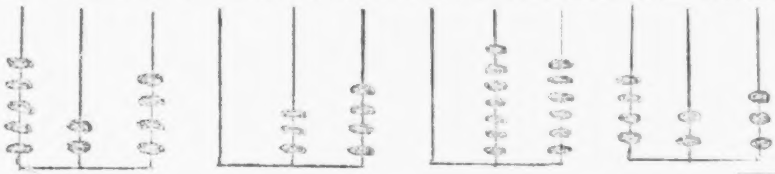
PV 4

(5)

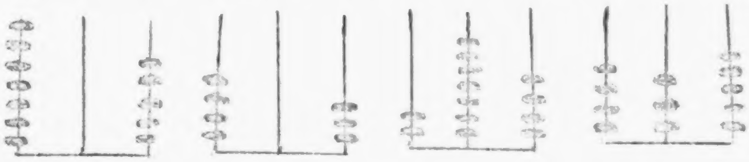
1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
3	186	14	141	__ __ __________
[illegible]	205	200	203	______________

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



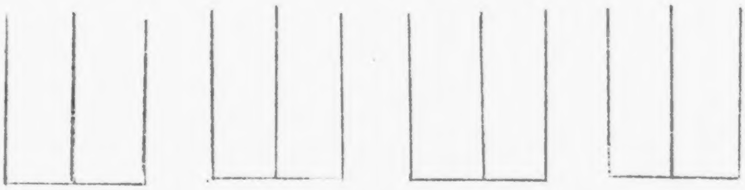
____



____

3. SHOW THIS NUMBER ON THE ABACUS.

406,452,010,043



PV 4
CONT

4. WRITE A COMPACT NUMERAL FOR:

NINE MILLION, TWENTY-ONE THOUSAND, SEVEN HUNDRED FOUR

____

EIGHT MILLION, SIX HUNDRED TWENTY-FIVE THOUSAND,
SIX HUNDRED EIGHTY-TWO

____

____
7

PV 5

YOUR TEACHER WILL READ 6 NUMBERS FOR YOU TO WRITE.

1) ____________________
2) ____________________
3) ____________________
4) ____________________
5) ____________________
6) ____________________

____
6

KEY

NAME ____________________

TEACHER & TEAM ____________________

DATE ____________________

Place Value PRE-test Form B

PV 1
(1)

1. FOR EACH SET WRITE THE NUMBER OF ONES AND TENS SHOWN.

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

4 TENS 7 ONES

△△△△△△
○○○○

6 TENS 4 ONES

2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

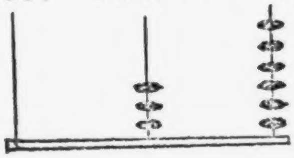
□□□□□□□□□
○○○○

9 TENS 4 ONES

△△△△△△

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES? 6 HOW MANY TENS? 3



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

4 TENS 7 ONES

△△△△△△
○○○○

6 TENS 4 ONES

2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

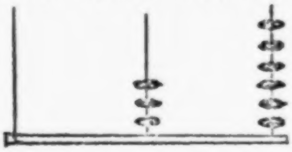
□□□□□□□□□
○○○○

9 TENS 4 ONES

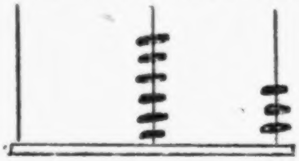
△△△△△△

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES? 6 HOW MANY TENS? 3



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS



6

PV 2
(2)

1. RENAME THE NUMBERS.

3 TENS 4 ONES 34

7 HUNDREDS 0 TENS 6 ONES 706

2. WRITE THE NUMBER THAT IS 100 MORE THAN 486 586

3. CIRCLE THE LARGEST NUMBER: 468 648 [✓ 864] 846 486

CIRCLE THE SMALLEST NUMBER: 343 [✓ 334] 452 523 342

4. HOW MANY CENTS IN TWO DOLLARS, FOUR DIMES, AND THREE PENNIES?

$2.43

6

PV 3 (4)

1. RENAME THE NUMBERS.

8,264 = 8 THOUSANDS 2 HUNDREDS 6 TENS 4 ONES

31,057 = 30 TEN THOUSANDS 1 THOUSANDS 0 HUNDREDS 5 TENS 7 ONES

---

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

245,706

---

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 [✓ 6,534] 6,495

CIRCLE THE SMALLEST NUMBER: [✓ 93,324] 94,456 93,681 96,524 93,342

---

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS 7 THOUSANDS 6 ONES 2 HUNDREDS 9

6

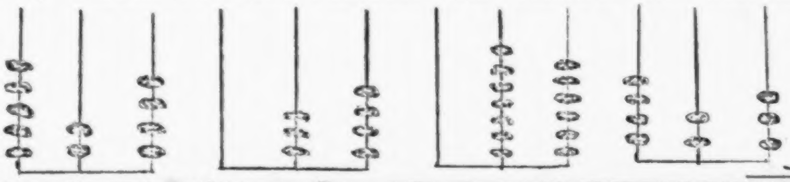
PV 4 (5)

1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
38	186	14	141	38,186,014,141
2	205	200	203	2,205,200,2

---

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



524,034,076,423

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

245,706

---

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 [✓ 6,534] 6,495

CIRCLE THE SMALLEST NUMBER: [✓ 93,324] 94,456 93,681 96,524 93,342

6

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS 7 THOUSANDS 6 ONES 2 HUNDREDS 9

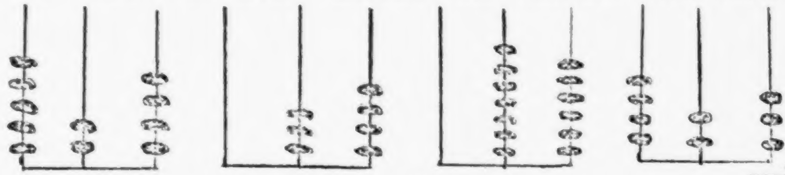
PV 4

(5)

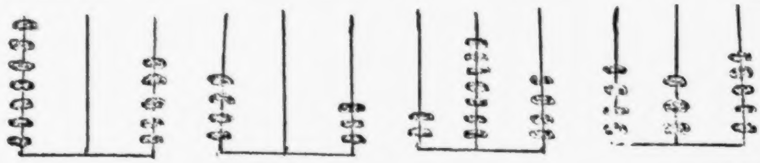
1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
38	186	14	141	38,186,014,141
2	205	200	203	2,205,200,20

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



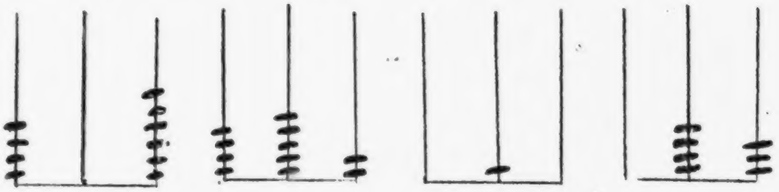
524,034,076,423



705,403,274,435

3. SHOW THIS NUMBER ON THE ABACUS.

406,452,010,043



PV 4
CONT

4. WRITE A COMPACT NUMERAL FOR:

NINE MILLION, TWENTY-ONE THOUSAND, SEVEN HUNDRED FOUR

9,021,704

EIGHT MILLION, SIX HUNDRED TWENTY-FIVE THOUSAND,
SIX HUNDRED EIGHTY-TWO

8,625,682

___
7

PV 5

YOUR TEACHER WILL READ 6 NUMBERS FOR YOU TO WRITE.

1) ______________________
2) ______________________
3) ______________________
4) ______________________
5) ______________________
6) ______________________

___
6

NAME ______________________

TEACHER & TEAM ______________________

DATE______________________

Place Value Post test Form B

PV 1
(1)

1. FOR EACH SET WRITE THE NUMBER OF ONES AND TENS SHOWN.

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

____TENS ___ONES

△△△△△△
○○○○

____TENS ___ONES

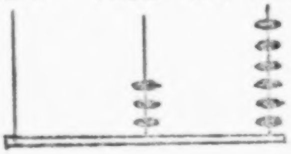
2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

9 TENS 4 ONES

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES?______HOW MANY TENS?____



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

____TENS ___ONES

△△△△△△
○○○○

____TENS ___ONES

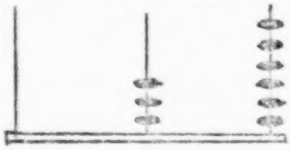
2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

9 TENS 4 ONES

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES?______HOW MANY TENS?_____



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

6

PV 2
(2)

1. RENAME THE NUMBERS.

3 TENS 4 ONES ____________

7 HUNDREDS 0 TENS 6 ONES ____________

2. WRITE THE NUMBER THAT IS 100 MORE THAN 486 ________________

3. CIRCLE THE LARGEST NUMBER: 468 648 864 846 486

CIRCLE THE SMALLEST NUMBER: 343 334 452 523 342

4. HOW MANY CENTS IN TWO DOLLARS, FOUR DIMES, AND THREE PENNIES?

____

6

PV 3
(4)

1. RENAME THE NUMBERS.

8,264 = _____THOUSANDS _____HUNDREDS ______TENS ____ONES

31,057 = _____TEN THOUSANDS _____THOUSANDS _____HUNDREDS

____TENS _____ONES

---

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

____

---

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632
6,534 6,495

CIRCLE THE SMALLEST NUMBER: 93,324 94,456 93,681
96,524 93,342

---

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS________ THOUSANDS________ONES_____ HUNDREDS____

6

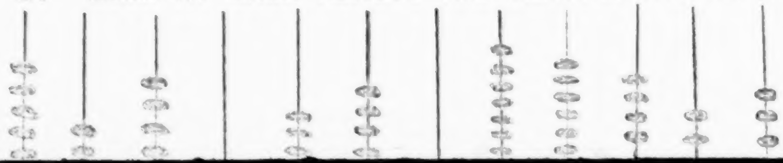
PV 4
(5)

1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
38	186	14	141	__ __ ______________
2	205	200	203	______________

---

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

____

---

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 6,534 6,495

CIRCLE THE SMALLEST NUMBER: 93,324 94,456 93,681 96,524 93,342

---

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS_______ THOUSANDS_______ ONES_____ HUNDREDS____

6

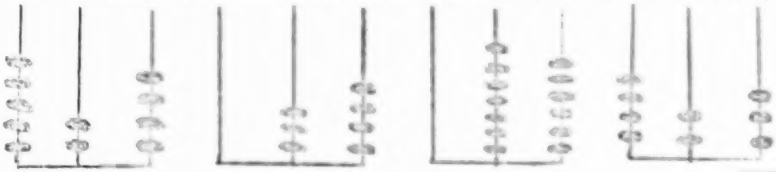
PV 4

(5)

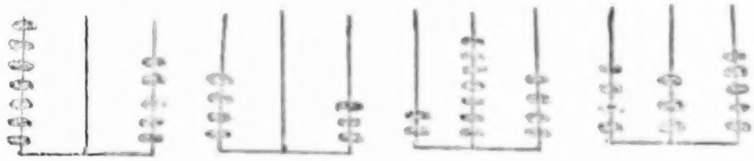
1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
38	186	14	141	____________
2	205	200	203	____________

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



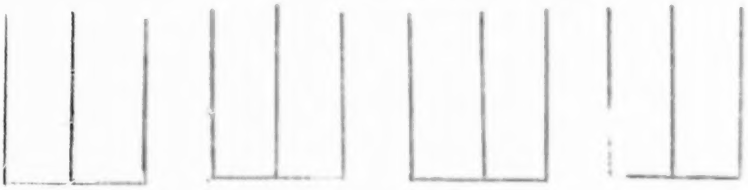
____



____

3. SHOW THIS NUMBER ON THE ABACUS.

406,452,010,043



PV 4
CONT

4. WRITE A COMPACT NUMERAL FOR:

NINE MILLION, TWENTY-ONE THOUSAND, SEVEN HUNDRED FOUR

____

EIGHT MILLION, SIX HUNDRED TWENTY-FIVE THOUSAND,
SIX HUNDRED EIGHTY-TWO

____

___
7

PV 5

YOUR TEACHER WILL READ 6 NUMBERS FOR YOU TO WRITE.

1) _______________
2) _______________
3) _______________
4) _______________
5) _______________
6) _______________

___
6

NAME ______________________

KEY

TEACHER & TEAM ______________________

DATE ______________________

Place Value Post test Form B

PV 1
(1)

1. FOR EACH SET WRITE THE NUMBER OF ONES AND TENS SHOWN.

KEY: △ = TEN ○ = ONE

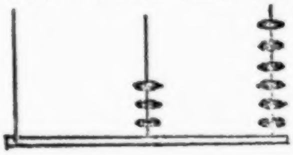
△ △ △ △ ○ ○ ○ ○ ○ ○ ○	△ △ △ △ △ △ ○ ○ ○ ○
4 TENS 7 ONES	6 TENS 4 ONES

2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

□ □ □ □ □ □ □ □ □ ○ ○ ○ ○	□ □ □ □ □ □
9 TENS 4 ONES	6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES? 6 HOW MANY TENS? 3



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS

KEY: △ = TEN ○ = ONE

△△△△
○○○○○○○

4 TENS 7 ONES

△△△△△△
○○○○

6 TENS 4 ONES

---

2. DRAW THE NUMBER OF ONES AND TENS IN THE BOXES BELOW.

□ = TEN ○ = ONE

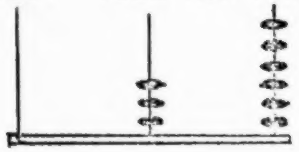
□□□□□□□□□
○○○○

9 TENS 4 ONES

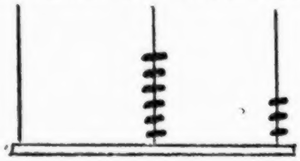
□□□□□□

6 TENS 0 ONES

3. LOOK AT THE ABACUS. TELL HOW MANY ONES? 6 HOW MANY TENS? 3



4. DRAW 3 ONES AND 6 TENS ON THIS ABACUS



6

PV 2
(2)

1. RENAME THE NUMBERS.

3 TENS 4 ONES 34

7 HUNDREDS 0 TENS 6 ONES 706

2. WRITE THE NUMBER THAT IS 100 MORE THAN 486 586

3. CIRCLE THE LARGEST NUMBER: 468 648 [✓ 864] 846 486

CIRCLE THE SMALLEST NUMBER: 343 [✓ 334] 452 523 342

4. HOW MANY CENTS IN TWO DOLLARS, FOUR DIMES, AND THREE PENNIES?

$ 2.4-3

PV 3
(4)

1. RENAME THE NUMBERS.

8,264 = 8 THOUSANDS 2 HUNDREDS 6 TENS 4 ONES

31,057 = 30 TEN THOUSANDS 1 THOUSANDS 0 HUNDREDS 5 TENS 7 ONES

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

245,706

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 [✓ 6,534] 6,495

CIRCLE THE SMALLEST NUMBER: [✓ 93,324] 94,456 93,681 96,524 93,342

4. THE SMITHS FLEW 6,972 MILES TO VISIT THEIR FRIENDS. SHOW HOW MANY: TENS 7 THOUSANDS 6 ONES 2 HUNDREDS 9

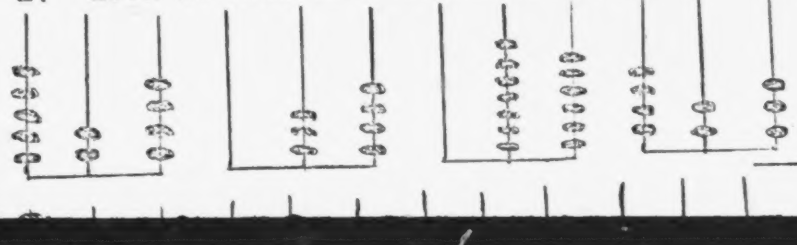
6

PV 4
(5)

1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
38	186	14	141	38,186,014,141
2	205	200	203	2,205,200,203

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



524,034,076,423

2. WRITE THE NUMBER THAT IS 10,000 MORE THAN 235,706

245,706

3. CIRCLE THE LARGEST NUMBER: 6,345 5,989 4,632 [✓ 6,534] 6,495

CIRCLE THE SMALLEST NUMBER: [✓ 93,324] 94,456 93,681 96,524 93,342

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PV 4

(5)

1. RENAME THESE NUMBERS

BILLIONS	MILLIONS	THOUSANDS	ONES	
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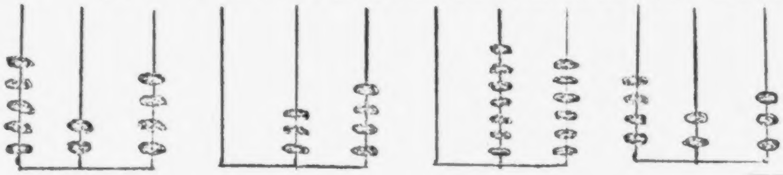
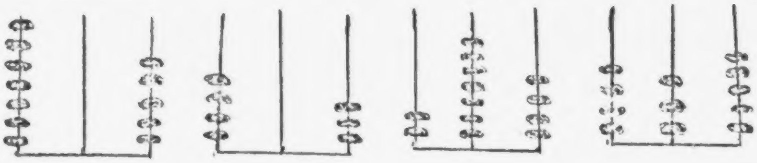
2	205	200	203	2,205,200,203

2. LOOK AT EACH ABACUS AND RENAME THE NUMBER SHOWN



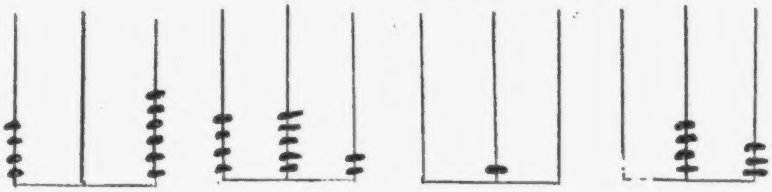
524,034,076,423



705,403,274,435

3. SHOW THIS NUMBER ON THE ABACUS.

406,452,010,043



PV 4
CONT

4. WRITE A COMPACT NUMERAL FOR:

NINE MILLION, TWENTY-ONE THOUSAND, SEVEN HUNDRED FOUR

9,021,704

EIGHT MILLION, SIX HUNDRED TWENTY-FIVE THOUSAND,
SIX HUNDRED EIGHTY-TWO

8,625,682

___
7

PV 5

YOUR TEACHER WILL READ 6 NUMBERS FOR YOU TO WRITE.

1) ______________________
2) ______________________
3) ______________________
4) ______________________
5) ______________________
6) ______________________

___
6

Name______________________________

Team______________________________

Teacher____________________________

Date______________________________

FORM A or B (Circle one)

ADDITION - SUBSTRACTION

	Pre-Test	Program	Post-Test	Comment
A-S 1 Family of Facts	4		4	
A-S 2 Add - Subtract Facts to 10	30		30	
A-S 3 3 Addends, Facts less than 10	4		4	
A-S 4 Add-Subtract Facts thru 20	30		30	
A-S 5 2 Addends, plus one, with regrouping	4		4	
A-S 6 Add-Subtract 10's with zero's	4		4	
A-S 7 Add- Sub. 2 Addends + 2 without regrouping	4		4	
A-S 8 3 digit Add & Sub. without regrouping	4		4	
A-S 9 2 Addends plus 2 with regrouping	4		4	
A-S 10 Sub. 2 digits from 2 digits with regrouping	4		4	

A-S 1 Family of Facts	4		4	
A- 2 Add - Subtract Facts to 10	30		30	
A- 3 3 Addends, Facts less than 10	4		4	
A- 4 Add-Subtract Facts thru 20	30		30	
A-S 5 2 Addends, plus one, with regrouping	4		4	
A-S 6 Add-Subtract 10's with zero's	4		4	
A-S 7 Add- Sub. 2 Addends + 2 without regrouping	4		4	
A-S 8 3 digit Add & Sub. without regrouping	4		4	
A-S 9 2 Addends plus 2 with regrouping	4		4	
A-S 10 Sub. 2 digits from 2 digits with regrouping	4		4	
A-S 11 Add 3 Addends plus 3 with regrouping	4		4	
A-S 12 Sub. 3 digits from 3 digits with regrouping	4		4	
A-S 13 Equalities and inequalities signs	4		4	
A-S 14 Number lines Associative properties	4		4	
A-S 15 Money - Add,Sub with regrouping	4		4	
A-S 16 Bases	4		4	

Name ____________________

Team ____________________

Teacher ____________________

Date ____________________

ADDITION - SUBTRACTION PRE-TEST FORM B

AS 1

Write a family of facts for this set of two addends and a sum:

(4, 3, 7)

____

____

____

____

$\frac{\quad\quad}{4}$

AS 2

Watch the signs!!

$$\begin{array}{rrrrrrrr} 2 & 3 & 6 & 5 & 10 & 8 & 3 & 4 \\ +7 & +2 & +2 & +1 & +0 & +1 & +3 & +3 \\ \hline \end{array}$$

$$\begin{array}{rrrrrrrr} 8 & 3 & 5 & 4 & 9 & 5 & 6 & 7 \\ +2 & +7 & +2 & +5 & +1 & +3 & -2 & -4 \\ \hline \end{array}$$

$$\begin{array}{rrrrrrrr} 9 & 9 & 3 & 4 & 8 & 6 & 5 & 8 \\ -2 & -3 & -1 & -3 & -2 & -3 & -3 & -4 \\ \hline \end{array}$$

AS 1

Write a family of facts for this set of two addends and a sum:

(4, 3, 7)

____

____

____

____

____
4

AS 2

Watch the signs!!

2	3	6	5	10	8	3	4
+7	+2	+2	+1	+0	+1	+3	+3
8	3	5	4	9	5	6	7
+2	+7	+2	+5	+1	+ 3	-2	-4
9	9	3	4	8	6	5	8
-2	-3	-1	-3	-2	-3	-3	-4
8	7	10	9	8	10		
-6	-2	-2	-4	-5	-8		

____
30

AS 3

5	6	2	1
3	4	3	8
+ 1	+ 2	+ 4	+ 1

____
4

AS 4 Watch the signs!!

6	5	9	7	9	8
+5	+9	+9	+5	+8	+6
9	9	8	6	7	5
+7	+2	+8	+6	+4	+8
8	8	7	12	11	12
+7	+4	+6	-7	-4	-5
15	14	13	18	12	14
-7	-6	-6	-9	-8	-5
17	12	15	16	14	12
-8	-6	-6	-7	-7	-3

30

AS 5

16	81	66	46
+3	+8	-5	-4

4

AS 6

30	30	70	20
+20	+60	-20	-10

4

AS7

51	12	39	78
+43	+87	- 21	- 25

	9 +7	9 +2	8 +8	6 +6	7 +4	5 +8
	8 +7	8 +4	7 +6	12 -7	11 -4	12 -5
	15 -7	14 -6	13 -6	18 -9	12 -8	14 -5
---- 30	17 -8	12 -6	15 -6	16 -7	14 -7	12 -3

AS 5 ---- 4	16 +3	81 +8	66 -5	46 -4
AS 6 ---- 4	30 +20	30 +60	70 -20	20 -10
AS7 ---- 4	51 +43	12 +87	39 - 21	78 - 25
AS 8 ---- 4	676 +112	527 + 303	875 - 534	249 -118

AS 9 ---- 4	39 + 32	47 + 45	18 +29	27 +34
AS 10 ---- 4	60 -23	51 -26	83 -18	25 -17
AS 11 ---- 4	367 +224	327 +247	465 +785	757 +666
AS 12 ---- 4	526 -238	711 -199	391 -165	320 -261

AS 13

For each sentence, write T or F to show if it is True or False:

$8+3 = 0$ ________

$3 + 5 + 6 < 2 + 4 + 5$ ________

Use =, >, or < and other symbols (+ or -) to write these number sentences:

6 + 3 is greater than 7 _____

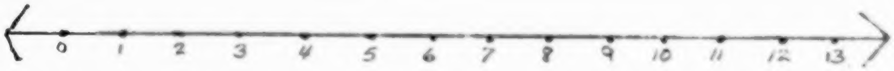
The sum of 11 and 37 is 48 _____

4

AS 14

Show each pair of equations on the number line:

3 + 6 = 9   6 + 3 = 9



Complete the equations:

4+2 = 4+ (1+1)
= (4+ ___) +1
= ___ + 1
= ___

21+5 = (20+1) + 5
= 20 + (___ + 5)
= 20 + ____
= ___

$\frac{\text{----}}{4}$

AS 15

Watch the signs!!

$ .86	$5.69	$3.42	$2.08
+ .02	+3.26	-1.95	- .79

$\frac{\text{----}}{4}$

AS 16

Base 5

4	13	22	434
+ 3	+ 2	+34	+344

$\frac{\text{----}}{4}$

KEY

Name ________________
Team ________________
Teacher ________________
Date ________________

ADDITION - SUBTRACTION PRE-TEST . FORM B

AS 1

Write a family of facts for this set of two addends and a sum:

(4, 3, 7)

4 + 3 = 7
3 + 4 = 7
7 − 4 = 3
7 − 3 = 4

____
4

AS 2

Watch the signs!!

2	3	6	5	10	8	3	4
+7	+2	+2	+1	+0	+1	+3	+3
9	5	8	6	10	9	6	7
8	3	5	4	9	5	6	7
+2	+7	+2	+5	+1	+3	−2	−4
10	10	7	9	10	8	4	3
9	9	3	4	8	6	5	8
−2	−3	−1	−3	−2	−3	−3	−4
					3		4

AS 1

Write a family of facts for this set of two addends and a sum:

(4, 3, 7)

4 + 3 = 7

3 + 4 = 7

7 − 4 = 3

7 − 3 = 4

4

AS 2

Watch the signs!!

2	3	6	5	10	8	3	4
+7	+2	+2	+1	+0	+1	+3	+3
9	5	8	6	10	9	6	7
8	3	5	4	9	5	6	7
+2	+7	+2	+5	+1	+3	−2	−4
10	10	7	9	10	8	4	3
9	9	3	4	8	6	5	8
−2	−3	−1	−3	−2	−3	−3	−4
7	6	2	1	6	3	2	4
8	7	10	9	8	10		
−6	−2	−2	−4	−5	−8		
2	5	8	5	3	2		

30

AS 3

5	6	2	1
3	4	3	8
+ 1	+ 2	+ 4	+ 1
9	12	9	10

4

AS 4 Watch the signs!!

6	5	9	7	9	8
+5	+9	+9	+5	+8	+6
11	14	18	12	17	14
9	9	8	6	7	5
+7	+2	+8	+6	+4	+8
16	11	16	12	11	13
8	8	7	12	11	12
+7	+4	+6	-7	-4	-5
15	12	13	5	7	7
15	14	13	18	12	14
-7	-6	-6	-9	-8	-5
8	8	7	9	4	9
17	12	15	16	14	12
-8	-6	-6	-7	-7	-3
9	6	9	9	7	9

30

AS 5

16	81	66	46
+3	+8	-5	-4
19	89	61	42

4

AS 6

30	30	70	20
+20	+60	-20	-10
50	90	50	10

4

AS7

51	12	39	78
+43	+87	- 21	- 25
94	99	18	53

	+7	+2	+8	+6	+4	+8
	16	11	16	12	11	13
	8	8	7	12	11	12
	+7	+4	+6	-7	-4	-5
	15	12	13	5	7	7
	15	14	13	18	12	14
	-7	-6	-6	-9	-8	-5
	8	8	7	9	4	9
	17	12	15	16	14	12
----	-8	-6	-6	-7	-7	-3
30	9	6	9	9	7	9

AS 5	16	81	66	46
----	+3	+8	-5	-4
4	19	89	61	42

AS 6	30	30	70	20
	+20	+60	-20	-10
----	50	90	50	10
4				

AS7	51	12	39	78
	+43	+87	- 21	- 25
----	94	99	18	53
4				

AS 8	676	527	875	249
	+112	+ 303	- 534	-118
----	788	830	341	131
4				

AS 9 ____ 4	39 + 32 71	47 + 45 92	18 +29 47	27 +34 61
AS 10 ____ 4	60 -23 37	51 -26 25	83 -18 65	25 -17 8
AS 11 ____ 4	367 +224 591	327 +247 574	465 +785 1,250	757 +666 1,423
AS 12 ____ 4	526 -238 288	711 -199 512	391 -165 226	320 -261 59

AS 13

For each sentence, write T or F to show if it is True or False:

8+3 = 0 ___F____

3 + 5 + 6 < 2 + 4 + 5 ___F____

Use =, >, or < and other symbols

AS 10 ____ 4	60 -23 37	51 -26 25	83 -18 65	25 -17 8
AS 11 ____ 4	367 +224 591	327 +247 574	465 +785 1,250	757 +666 1,423
AS 12 ____ 4	526 -238 288	711 -199 512	391 -165 226	320 -261 59

AS 13

For each sentence, write T or F to show if it is True or False:

8 + 3 = 0 ___F____

3 + 5 + 6 < 2 + 4 + 5 ___F____

Use =, >, or < and other symbols (+ or -) to write these number sentences:

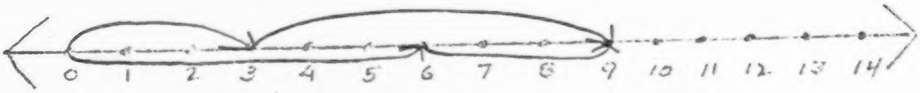
6 + 3 is greater than 7 6+3>

The sum of 11 and 37 is 48 11+37=48

____
4

AS 14 Show each pair of equations on the number line:

3 + 6 = 9 6 + 3 = 9


0
1
2
3
4
5
6
7
8
9
10
11
12
13
14

Complete the equations:

4+2 = 4+(1+1)
= (4+ 1) +1
= 5 + 1
= 6

21+5 = (20+1) + 5
= 20 + (1 + 5)
= 20 + 6
= 26

$\frac{\;\;\;\;}{4}$

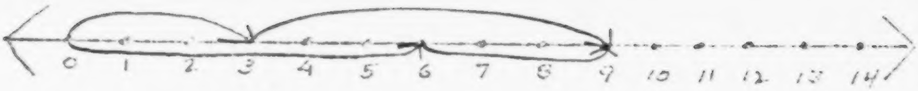
AS 15 Watch the signs!!

$ .86	$5.69	$3.42	$2.08
+ .02	+3.26	-1.95	- .79
$ .88	$ 8.95	$ 1.47	$ 1.29

$\frac{\;\;\;\;}{4}$

AS 16 Base 5

4 13 22 434



Complete the equations:

$4+2 = 4+(1+1)$
$= (4+ \underline{\ 1\ }) +1$
$= \underline{\ 5\ } + 1$
$= \underline{\ 6\ }$

$21+5 = (20+1) + 5$
$= 20 + (\underline{\ 1\ } + 5)$
$= 20 + \underline{\ 6\ }$
$= \underline{\ 26\ }$

$\frac{\quad\quad}{4}$

AS 15 Watch the signs!!

$ .86	$5.69	$3.42	$2.08
+ .02	+3.26	-1.95	- .79
$ .88	$ 8.95	$ 1.47	$ 1.29

$\frac{\quad\quad}{4}$

AS 16 Base 5

4	13	22	434
+ 3	+ 2	+34	+344
7	15	56	778

$\frac{\quad\quad}{4}$

Name ____________
Team ____________
Teacher ____________
Date ____________

ADDITION-SUBTRACTION POST-TEST FORM B

AS 1 Write a family of facts for this set of two addends and a sum:

$$\left\{ 3 \qquad 5 \qquad 2 \right\}$$

____

____

____

____

4

AS 2

5	4	3	9	5	8
+3	+5	+7	+1	+2	+2
4	8	5	3	10	6
+3	+1	+1	+3	+0	+2
2	10	8	3	9	10

AS 1 Write a family of facts for this set of two addends and a sum:

$\left\{\ 3 \qquad 5 \qquad 2\ \right\}$

——————————————

——————————————

——————————————

——————————————

$\frac{\quad}{4}$

AS 2

$\begin{array}{r}5\\+3\\\hline\end{array}$	$\begin{array}{r}4\\+5\\\hline\end{array}$	$\begin{array}{r}3\\+7\\\hline\end{array}$	$\begin{array}{r}9\\+1\\\hline\end{array}$	$\begin{array}{r}5\\+2\\\hline\end{array}$	$\begin{array}{r}8\\+2\\\hline\end{array}$
$\begin{array}{r}4\\+3\\\hline\end{array}$	$\begin{array}{r}8\\+1\\\hline\end{array}$	$\begin{array}{r}5\\+1\\\hline\end{array}$	$\begin{array}{r}3\\+3\\\hline\end{array}$	$\begin{array}{r}10\\+0\\\hline\end{array}$	$\begin{array}{r}6\\+2\\\hline\end{array}$
$\begin{array}{r}2\\+7\\\hline\end{array}$	$\begin{array}{r}10\\+2\\\hline\end{array}$	$\begin{array}{r}8\\-5\\\hline\end{array}$	$\begin{array}{r}3\\-2\\\hline\end{array}$	$\begin{array}{r}9\\-4\\\hline\end{array}$	$\begin{array}{r}10\\-8\\\hline\end{array}$
$\begin{array}{r}7\\-2\\\hline\end{array}$	$\begin{array}{r}8\\-4\\\hline\end{array}$	$\begin{array}{r}8\\-2\\\hline\end{array}$	$\begin{array}{r}8\\-6\\\hline\end{array}$	$\begin{array}{r}5\\-3\\\hline\end{array}$	$\begin{array}{r}6\\-3\\\hline\end{array}$
$\begin{array}{r}3\\-1\\\hline\end{array}$	$\begin{array}{r}9\\-2\\\hline\end{array}$	$\begin{array}{r}6\\-2\\\hline\end{array}$	$\begin{array}{r}9\\-3\\\hline\end{array}$	$\begin{array}{r}7\\-4\\\hline\end{array}$	$\begin{array}{r}4\\-3\\\hline\end{array}$

$\frac{\quad}{30}$

AS 3

$\begin{array}{r}2\\4\\+3\\\hline\end{array}$	$\begin{array}{r}3\\6\\+1\\\hline\end{array}$	$\begin{array}{r}1\\5\\+2\\\hline\end{array}$	$\begin{array}{r}3\\3\\+1\\\hline\end{array}$

$\frac{\quad}{4}$

ADDITION-SUBTRACTION POST-TEST FORM B

AS 4 Watch the signs!

9 +9	9 +5	5 +6	7 +5	9 +8	8 +6
9 +7	9 +2	8 +8	6 +6	7 +4	5 +8
8 +7	8 +4	7 +6	12 -7	11 -4	12 -5
15 -7	14 -6	13 -6	18 -9	12 -8	14 -5
17 -8	12 -6	15 -6	16 -7	14 -7	12 -3

___
30

AS 5	14 +2	73 +5	36 -3	69 -4

___
4

AS 6	40 +30	70 +20	80 -20	30 -30

9 +7	9 +2	8 +8	6 +6	7 +4	5 +8
8 +7	8 +4	7 +6	12 -7	11 -4	12 -5
15 -7	14 -6	13 -6	18 -9	12 -8	14 -5
17 -8	12 -6	15 -6	16 -7	14 -7	12 -3

___
30

AS 5	14 +2	73 +5	36 -3	69 -4

___
4

AS 6	40 +30	70 +20	80 -20	30 -30

___
4

AS 7	68 +20	27 +52	89 -32	46 -23

___
4

AS 8	126 +343	262 +436	659 -352	967 -532

___
4

AS 9	26 + 58	26 +17	63 +39	57 +36

___
4

ADDITION-SUBTRACTION POST-TEST FORM B

AS 10	60	64	87	65
	-16	-38	-48	-57

___/4

AS 11	368	267	458	395
	+ 459	+476	+ 376	+807

___/4

AS 13 For each sentence, write T or F to show if it True or False:

___ 6+3 = 11 Answer: ______

___ 3+4+5 < 6+2+4 Answer: ______

Use +, >, or < and other symbols (+ or -) to write the number sentences:

7 and 4 is greater than 10: _________

The sum of 10 and 24 is 34: _________

___/4

AS 14 Show each pair of equations on the number line:

5 + 8 = 13 8 + 5 = 13

– – –
4

AS 11	368 + 459	267 + 476	458 + 376	395 + 807

– – –
4

AS 13 For each sentence, write T or F to show if it True or False:

___ $6+3 = 11$ Answer: ______

___ $3+4+5 < 6+2+4$ Answer: ______

Use +, >, or < and other symbols (+ or -) to write the number sentences:

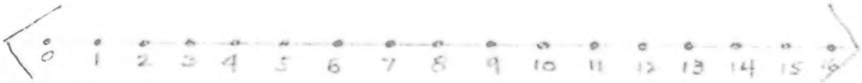
7 and 4 is greater than 10: _________

The sum of 10 and 24 is 34: _________

– – –
4

AS 14 Show each pair of equations on the number line:

$5 + 8 = 13$ $8 + 5 = 13$



Complete the equations:

$6+5 = 6+(3+2)$
$= (6+\_)+2$
$= \_+2$
$= \_\_$

$24+3 = (20+4)+3$
$= 20+(\_+3)$
$= 20+\_\_$
$= \_\_$

– – –
4

ADDITION-SUBTRACTION POST-TEST FORM B

AS 15 ___ 4	$.05 +.95	$4.13 +3.49	$2.64 -1.95	$2.08 - .69	
AS 16 ___ 4	Base 5	4 +3	13 + 2	22 +34	434 +324

KEY

Name ____________
Team ____________
Teacher ____________
Date ____________

ADDITION-SUBTRACTION POST-TEST FORM B

AS 1 Write a family of facts for this set of two addends and a sum:

$\{3 \quad 5 \quad 2\}$

3 + 2 = 5

2 + 3 = 5

5 - 3 = 2

5 - 2 = 3

___ 4

AS 2

5	4	3	9	5	8
+3	+5	+7	+1	+2	+2
8	9	10	10	7	10
4	8	5	3	10	6
+3	+1	+1	+3	+0	+2
7	9	6	6	10	8

AS 1

Write a family of facts for this set of two addends and a sum:

{3 5 2}

3 + 2 = 5

2 + 3 = 5

5 - 3 = 2

5 - 2 = 3

4

AS 2

5	4	3	9	5	8
+3	+5	+7	+1	+2	+2
8	9	10	10	7	10
4	8	5	3	10	6
+3	+1	+1	+3	+0	+2
7	9	6	6	10	8
2	10	8	3	9	10
+7	+2	-5	-2	-4	-8
9	12	3	1	5	2
7	8	8	8	5	6
-2	-4	-2	-6	-3	-3
5	4	6	2	2	3
3	9	6	9	7	4
-1	-2	-2	-3	-4	-3
2	7	4	6	3	1

30

AS 3

2	3	1	3
4	6	5	3
+3	+1	+2	+1
9	10	8	7

4

ADDITION-SUBTRACTION POST-TEST FORM B

AS 4 Watch the signs!

9 +9 18	9 +5 14	5 +6 11	7 +5 12	9 +8 17	8 +6 14
9 +7 16	9 +2 11	8 +8 16	6 +6 12	7 +4 11	5 +8 13
8 +7 15	8 +4 12	7 +6 13	12 -7 5	11 -4 7	12 -5 7
15 -7 8	14 -6 8	13 -6 7	18 -9 9	12 -8 4	14 -5 9
17 -8 9	12 -6 6	15 -6 9	16 -7 9	14 -7 7	12 -3 9

30

AS 5

14 +2 16	73 +5 78	36 -3 33	69 -4 65

4

AS 6

40 +30 70	70 +20 90	80 -20 60	30 -30 0

	18	14	11	12	17	14
	9	9	8	6	7	5
	+7	+2	+8	+6	+4	+8
	16	11	16	12	11	13
	8	8	7	12	11	12
	+7	+4	+6	-7	-4	-5
	15	12	13	5	7	7
	15	14	13	18	12	14
	-7	-6	-6	-9	-8	-5
	8	8	7	9	4	9
	17	12	15	16	14	12
	-8	-6	-6	-7	-7	-3
30	9	6	9	9	7	9

AS 5	14	73	36	69
	+2	+5	-3	-4
4	16	78	33	65

AS 6	40	70	80	30
	+30	+20	-20	-30
4	70	90	60	0

AS 7	68	27	89	46
	+20	+52	-32	-23
4	88	79	57	23

AS 8	126	262	659	967
	+343	+436	-352	-532
4	469	698	307	435

AS 9	26	26	63	57
	+58	+17	+39	+36
4	84	43	102	93

ADDITION-SUBTRACTION POST-TEST FORM B

AS 10	60 -16 44	64 -38 26	87 -48 39	65 -57 8
--- 4				
AS 11	368 + 459 827	267 +476 743	458 + 376 834	395 +807 1,202
--- 4				

AS 13 For each sentence, write T or F to show if it True or False:

--- $6+3 = 11$ Answer: F

--- $3+4+5 < 6+2+4$ Answer: F

Use +, >, or < and other symbols (+ or -) to write the number sentences:

7 and 4 is greater than 10: $7+4>10$

The sum of 10 and 24 is 34: $10+24=34$

4

AS 14 Show each pair of equations on the number line:

___
4

AS 11

368	267	458	395
+ 459	+ 476	+ 376	+ 807
827	743	834	1,202

___
4

AS 13 For each sentence, write T or F to show if it True or False:

___ 6+3 = 11 Answer: F

___ 3+4+5 < 6+2+4 Answer: F

Use +, >, or < and other symbols (+ or -) to write the number sentences:

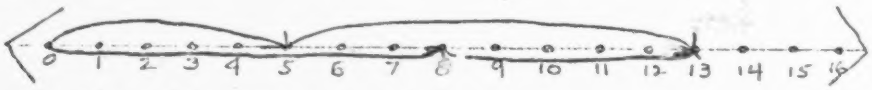
7 and 4 is greater than 10: $7+4>10$

The sum of 10 and 24 is 34: $10+24=34$

___
4

AS 14 Show each pair of equations on the number line:

5 + 8 = 13 8 + 5 = 13



Complete the equations:

$6+5 = 6+(3+2)$ $24+3 = (20+4)+3$
$= (6+3)+2$ $= 20+(4+3)$
$= 9+2$ $= 20+7$
$= 11$ $= 27$

___
4

ADDITION-SUBTRACTION POST-TEST FORM B

AS 15 --- 4		$.05 +.95 $1.00	$4.13 +3.49 $7.62	$2.64 -1.95 $ .69	$2.08 - .69 $1.39
AS 16 --- 4	Base 5	4 +3 7	13 + 2 15	22 +34 56	434 +324 758

NAME ________________

TEAM __________ DATE __________

TEACHER ________________

FORM A or B (Circle one)

MULTIPLICATION OPERATIONS

	Pre-Test	Program	Post-Test	Comments
M1 Multiplication Facts 1-6	____ 18		____ 18	
M2 Multiplication Facts 7-9	____ 18		____ 18	
M3 1 digit times 2, 3, 4 digits no regrouping	____ 4		____ 4	
M4 One digit times 2, 3, 4 digits with regrouping	____ 4		____ 4	
M5 Two digit times 2, 3, 4 digits with regrouping	____ 4		____ 4	

M1 Multiplication Facts 1-6	____ 18		____ 18	
M2 Multiplication Facts 7-9	____ 18		____ 18	
M3 1 digit times 2, 3, 4 digits no regrouping	____ 4		____ 4	
M4 One digit times 2, 3, 4 digits with regrouping	____ 4		____ 4	
M5 Two digit times 2, 3, 4 digits with regrouping	____ 4		____ 4	
M6 Multiply with zeros	____ 4		____ 4	
M7 Story problems	____ 4		____ 4	
Suplimentary Works				

Name____________________
Team____________________
Teacher_
Date____________________

MULTIPLICATION PRE-TEST FORM B

M 1	6 X4	5 X5	5 X2	6 X5	3 X3	6 X3	2 X3	4 X 2
	3 X4	5 X3	5 X4	2 X2	7 X4	5 X0	6 X6	4 X4
---- 18				7 X5	1 X6			
M 2	2 X8	5 X8	2 X9	4 X8	9 X7	8 X9	8 X7	6 X9
	7 X3	9 X9	6 X7	8 X6	2 X7	8 X8	9 X5	7 X7
---- 18				3 X9	6 X7			
M 3	24 X2		23 X3		231 X 3		1212 X 4	

M 1	6 X4	5 X5	5 X2	6 X5	3 X3	6 X3	2 X3	4 X 2
	3 X4	5 X3	5 X4	2 X2	7 X4	5 X0	6 X6	4 X4
---- 18				7 X5	1 X6			
M 2	2 X8	5 X8	2 X9	4 X8	9 X7	8 X9	8 X7	6 X9
	7 X3	9 X9	6 X7	8 X6	2 X7	8 X8	9 X5	7 X7
---- 18				3 X9	6 X7			
M 3	24 X2		23 X3		231 X 3		1212 X 4	
---- 4								
M 4	34 X6		27 X4		139 X 5		2456 X 3	
---- 4								

M 5 ---- 4	52 X64	29 X37	863 X45	9756 X 24
M 6 ---- 4	70 X8	246 X30	509 X74	2040 X305

M 7

1. If there are 5 nickels in one quarter, how many nickels are in 4 quarters?

(Show your work)

Answer

----

2. On a trip, Mr. Jones traveled 95 miles each day. How many miles did he travel in 3 days?

(Show your work)

Answer

----

3. Kim helps Mrs. Sims. She earns $1.25 per hour. How much will

----
4

M 6

70	246	509	2040
X8	X30	X74	X305

4

M 7

1. If there are 5 nickels in one quarter, how many nickels are in 4 quarters?

Answer

(Show your work)

----

2. On a trip, Mr. Jones traveled 95 miles each day. How many miles did he travel in 3 days?

Answer

(Show your work)

----

3. Kim helps Mrs. Sims. She earns $1.25 per hour. How much will she earn in 4 hours?

Answer

(Show your work)

----

4. There are 52 weeks in one year. How many weeks are in 12 years?

Answer

(Show your work)

4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

MULTIPLICATION PRE-TEST FORM B

M 1	6 X4 24	5 X5 25	5 X2 10	6 X5 30	3 X3 9	6 X3 18	2 X3 6	4 X 2 8
	3 X4 12	5 X3 15	5 X4 20	2 X2 4	7 X4 28	5 X0 0	6 X6 36	4 X4 16
---- 18				7 X5 35	1 X6 6			
M 2	2 X8 16	5 X8 40	2 X9 18	4 X8 32	9 X7 63	8 X9 72	8 X7 56	6 X9 54
	7 X3 21	9 X9 81	6 X7 42	8 X6 48	2 X7 14	8 X8 64	9 X5 45	7 X7 49
---- 18				3 X9 27	6 X7 42			
M 3	24		23		231 X 3		1212 X 4	

M 1	6	5	5	6	3	6	2	4
	X4	X5	X2	X5	X3	X3	X3	X 2
	24	25	10	30	9	18	6	8
	3	5	5	2	7	5	6	4
	X4	X3	X4	X2	X4	X0	X6	X4
	12	15	20	4	28	0	36	16
				7	1			
				X5	X6			
18				35	6			

M 2	2	5	2	4	9	8	8	6
	X8	X8	X9	X8	X7	X9	X7	X9
	16	40	18	32	63	72	56	54
	7	9	6	8	2	8	9	7
	X3	X9	X7	X6	X7	X8	X5	X7
	21	81	42	48	14	64	45	49
				3	6			
				X9	X7			
18				27	42			

M 3	24	23	231	1212
	X2	X3	X 3	X 4
	48	69	693	4,848
4				

M 4	34	27	139	2456
	X6	X4	X 5	X 3
	204	108	695	7,368
4				

M 5 ---- 4	52 X64 208 312 3,328	29 X37 203 87 1,073	863 X45 4315 3452 38,835	9756 X 24 39024 19512 234,144
M 6 ---- 4	70 X8 560	246 X30 7,380	509 X74 2036 3563 37,666	2040 X305 10200 61200 622,200

M 7

1. If there are 5 nickels in one quarter, how many nickels are in 4 quarters?

   (Show your work)

   Answer

   20

2. On a trip, Mr. Jones traveled 95 miles each day. How many miles did he travel in 3 days?

   (Show your work)

   Answer

   285

3. Kim helps Mrs. Sims. She earns

4	3,328	1,07	38,835	234,144
M 6	70	246	509	2040
	X8	X30	X74	X305
	560	7,380	2036	10200
			3563	61200
4			37,666	622,200

M 7

1. If there are 5 nickels in one quarter, how many nickels are in 4 quarters?

(Show your work) Answer 20

2. On a trip, Mr. Jones traveled 95 miles each day. How many miles did he travel in 3 days?

(Show your work) Answer 285

3. Kim helps Mrs. Sims. She earns $1.25 per hour. How much will she earn in 4 hours?

(Show your work) Answer $5.00

4. There are 52 weeks in one year. How many weeks are in 12 years?

(Show your work) Answer 624

4

Name____________________
Team____________________
Teacher____________________
Date____________________

MULTIPLICATION POST-TEST FORM B

M 1	7 X4	5 X2	5 X4	2 X2	6 X6	5 X5
	4 X2	6 X5	7 X5	4 X4	5 X0	3 X4
	6 X3	3 X3	2 X3	1 X6	5 X3	6 X4
____ 18						
M 2	8 X9	9 X7	4 X8	2 X9	5 X8	2 X8
	8 X7	6 X9	7 X3	9 X9	6 X7	8 X6
	2 X7	8 X8	9 X5	7 X7	3 X9	6 X7
____ 18						
M 3	23 X2	12 X4	321 X 3	7689 X 1		
____ 4						

M 4 ---- 4	76 X5	39 X4	264 X 6	3241 X 8
M 5 ---- 4	56 X24	93 X25	538 X26	4327 X 54

M 7

1. There are 3 feet in a yard. How many feet are in 8 yards?

Answer

(Show your work)

----

2. Joe sold 135 papers per day. How many papers did he sell in 6 days?

Answer

(Show your work)

----

3. works for Mr. Green after

M 5

56	93	538	4327
X24	X25	X26	X 54

4

M 7

1. There are 3 feet in a yard. How many feet are in 8 yards?

Answer

(Show your work)

----

2. Joe sold 135 papers per day. How many papers did he sell in 6 days?

Answer

(Show your work)

----

3. Sam works for Mr. Green after school. He earns $2.35 each day. How much does Sam earn in 5 days?

Answer

(Show your work)

----

4. There are 60 minutes in one hour. How many minutes are in 42 hours?

Answer

(Show your work)

4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

MULTIPLICATION POST-TEST FORM B

M 1	7 X4 28	5 X2 10	5 X4 20	2 X2 4	6 X6 36	5 X5 25
	4 X2 8	6 X5 30	7 X5 35	4 X4 16	5 X0 0	3 X4 12
	6 X3 18	3 X3 9	2 X3 6	1 X6 6	5 X3 15	6 X4 24
---- 18						
M 2	8 X9 72	9 X7 63	4 X8 32	2 X9 18	5 X8 40	2 X8 16
	8 X7 56	6 X9 54	7 X3 21	9 X9 81	6 X7 42	8 X6 48
	2 X7 14	8 X8 64	9 X5 45	7 X7 49	3 X9 27	6 X7 42

MULTIPLICATION • POST-TEST FORM

M 1	7 X4 28	5 X2 10	5 X4 20	2 X2 4	6 X6 36	5 X5 25
	4 X2 8	6 X5 30	7 X5 35	4 X4 16	5 X0 0	3 X4 12
	6 X3 18	3 X3 9	2 X3 6	1 X6 6	5 X3 15	6 X4 24
---- 18						
M 2	8 X9 72	9 X7 63	4 X8 32	2 X9 18	5 X8 40	2 X8 16
	8 X7 56	6 X9 54	7 X3 21	9 X9 81	6 X7 42	8 X6 48
	2 X7 14	8 X8 64	9 X5 45	7 X7 49	3 X9 27	6 X7 42
---- 18						
M 3	23 X2 46	12 X4 48		321 X 3 963		7689 X 1 7,689
---- 4						

Page 2

M 4 ---- 4	76 X5 380	39 X4 156	264 X 6 1,584	3241 X 8 25,928
M 5 ---- 4	56 X24 224 112 1,344	93 X25 465 186 2,325	538 X26 3228 1076 13,988	4327 X 54 17308 21635 233,658

M 7

1. There are 3 feet in a yard. How many feet are in 8 yards?

Answer

(Show your work)

24

2. Joe sold 135 papers per day. How many papers did he sell in 6 days?

Answer

(Show your work)

810

3. Sam works for Mr. Green after school. He earns $2.35 each day

M 5	56 X24 224 112 1,344	93 X25 465 186 2,325	538 X26 3228 1076 13,985	4327 X 54 17308 21635 233,655
---- 4				

M 7

1. There are 3 feet in a yard. How many feet are in 8 yards?

Answer

(Show your work)

24

2. Joe sold 135 papers per day. How many papers did he sell in 6 days?

Answer

(Show your work)

810

3. Sam works for Mr. Green after school. He earns $2.35 each day. How much does Sam earn in 5 days?

Answer

(Show your work)

$11.75

4. There are 60 minutes in one hour. How many minutes are in 42 hours?

Answer

(Show your work)

2520

4

NAME________________

TEAM________________

TEACHER________________

DATE________________

FORM A or B (Circle one)

DIVISION OPERATIONS

	Pre-Test	Program	Post-Test	Comments
D1 Division facts 1 6	___ 20		___ 20	
D Division facts 7-9	___ 20		___ 20	
D3 1 digit divisor into 2 digit dividend with missing factor less than 10 - vertical form	___ 4		___ 4	
D 1 digit divisor into 2, 3 digit divident - working form	___ 4		___ 4	
D 2 digit divisor into 3 digit divident - working form	___ 4		___ 4	
D Story	___ 4		___ 4	

	Pre-Test	Program	Post-Test	Comments
D1 Division facts 1 6	$\overline{20}$		$\overline{20}$	
D Division facts 7-9	$\overline{20}$		$\overline{20}$	
D3 1 digit divisor into 2 digit dividend with missing factor less than 10 - vertical form	$\overline{4}$		$\overline{4}$	
D 1 digit divisor into 2, 3 digit divident - working form	$\overline{4}$		$\overline{4}$	
D 2 digit divisor into 3 digit divident - working form	$\overline{4}$		$\overline{4}$	
D Story Problems	$\overline{4}$		$\overline{4}$	
Supplementary Work				

Name
Team
Teacher
Date

DIVISION PRE-TEST FORM B

D1

30 ÷ 5 =   18 ÷ 3 =   8 ÷ 2 =   20 ÷ 5 =

25 ÷ 5 =   10 ÷ 2 =   15 ÷ 3 =   20 ÷ 4 =

27 ÷ 3 =   24 ÷ 4 =

$8\overline{)16}$ $2\overline{)12}$ $1\overline{)6}$ $5\overline{)35}$ $4\overline{)16}$

$5\overline{)10}$ $4\overline{)28}$ $6\overline{)36}$ $4\overline{)8}$ $6\overline{)24}$

$\frac{\quad}{20}$

D 2

$9\overline{)90}$ $6\overline{)24}$ $8\overline{)40}$ $8\overline{)56}$ $6\overline{)48}$

$8\overline{)64}$ $7\overline{)14}$ $9\overline{)72}$ $10\overline{)60}$ $3\overline{)27}$

42 ÷ 6 =   40 ÷ 5 =   63 ÷ 7 =   54 ÷ 6 =

81 ÷ 9 =   42 ÷ 6 =   40 ÷ 5 =   63 ÷ 9 =

54 ÷ 6 =   32 ÷ 8 =   18 ÷ 2 =   49 ÷ 7 =

D1

30 ÷ 5 =   18 ÷ 3 =   8 ÷ 2 =   20 ÷ 5 =

25 ÷ 5 =   10 ÷ 2 =   15 ÷ 3 =   20 ÷ 4 =

27 ÷ 3 =   24 ÷ 4 =

$8\overline{)16}$ $2\overline{)12}$ $1\overline{)6}$ $5\overline{)35}$ $4\overline{)16}$

$5\overline{)10}$ $4\overline{)28}$ $6\overline{)36}$ $4\overline{)8}$ $6\overline{)24}$

$\frac{\quad}{20}$

D 2

$9\overline{)90}$ $6\overline{)24}$ $8\overline{)40}$ $8\overline{)56}$ $6\overline{)48}$

$8\overline{)64}$ $7\overline{)14}$ $9\overline{)72}$ $10\overline{)60}$ $3\overline{)27}$

42 ÷ 6 =   40 ÷ 5 =   63 ÷ 7 =   54 ÷ 6 =

81 ÷ 9 =   42 ÷ 6 =   40 ÷ 5 =   63 ÷ 9 =

54 ÷ 6 =   32 ÷ 8 =   18 ÷ 2 =   49 ÷ 7 =

45 ÷ 9 =   21 ÷ 3 =   48 ÷ 8   40 ÷ 8 =

$\frac{\quad}{20}$

DIVISION PRE-TEST FORM B

D 3

☐
9/85
81
4

☐
4/33
32
☐

5/28

8/26

4

D 4

☐
3/36
30 ☐
6
6 ☐
0 ☐

4/93
80 ☐
13
☐ ☐
☐ ☐

7/680

3/369

4

D 5

28/440
280 ☐
160
140 ☐

23/782
690 ☐
92
☐ ☐

4 ☐

4

D 4

☐
3/36
30 ☐
6
6 ☐
0 ☐

4/93
80 ☐
13
☐ ☐
☐ ☐

7/680

3/369

4

D 5

28/440
280 ☐
160
140 ☐
☐

23/782
690 ☐
92
☐ ☐
☐ ☐

26/339

32/6591

4

D 6

1. Joe has 36 pieces of bubble gum. If he gives the same number to each of his four friends, how many pieces will each friend get?

(Show your work) Answer

----

2. Sally bought 8 apples at the store for 48¢. How much did each apple cost?

(Show your work) Answer

----

3. There are 130 children in fourth grade. If they are divided into five classes, how many children will be in each one?

(Show your work) Answer

----

4. There are 432 students in grades

(Show your work) Answer

----

2. Sally bought 8 apples at the store for 48¢. How much did each apple cost?

(Show your work) Answer

----

3. There are 130 children in fourth grade. If they are divided into five classes, how many children will be in each one?

(Show your work) Answer

----

4. There are 432 students in grades 3, 4, 5, and 6. They are going to the zoo in buses. Each bus can carry 48 students. How many buses will be needed?

(Show your work) Answer

4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

DIVISION PRE-TEST FORM B

D1

30 ÷ 5 = 6   18 ÷ 3 = 6   8 ÷ 2 = 4   20 ÷ 5 = 4

25 ÷ 5 = 5   10 ÷ 2 = 5   15 ÷ 3 = 5   20 ÷ 4 = 5

27 ÷ 3 = 9   24 ÷ 4 = 6

$\overset{2}{8\overline{)16}}$ $\overset{6}{2\overline{)12}}$ $\overset{6}{1\overline{)6}}$ $\overset{7}{5\overline{)35}}$ $\overset{4}{4\overline{)16}}$

$\overset{2}{5\overline{)10}}$ $\overset{7}{4\overline{)28}}$ $\overset{6}{6\overline{)36}}$ $\overset{2}{4\overline{)8}}$ $\overset{4}{6\overline{)24}}$

20

D 2

$\overset{10}{9\overline{)90}}$ $\overset{4}{6\overline{)24}}$ $\overset{5}{8\overline{)40}}$ $\overset{7}{8\overline{)56}}$ $\overset{8}{6\overline{)48}}$

$\overset{8}{8\overline{)64}}$ $\overset{2}{7\overline{)14}}$ $\overset{8}{9\overline{)72}}$ $\overset{6}{10\overline{)60}}$ $\overset{9}{3\overline{)27}}$

42 ÷ 6 = 7   40 ÷ 5 = 8   63 ÷ 7 = 9   54 ÷ 6 = 9

81 ÷ 9 = 9   42 ÷ 6 = 7   40 ÷ 5 = 8   63 ÷ 9 = 7

18 ÷ 2 = 9   49 ÷ 7 = 7

D1

30÷5 = 6 18÷3 = 6 8÷2 = 4 20÷5 = 4

25÷5 = 5 10÷2 = 5 15÷3 = 5 20÷4 = 5

27÷3 = 9 24÷4 = 6

$\begin{array}{r}2\\8\overline{)16}\end{array}$ $\begin{array}{r}6\\2\overline{)12}\end{array}$ $\begin{array}{r}6\\1\overline{)6}\end{array}$ $\begin{array}{r}7\\5\overline{)35}\end{array}$ $\begin{array}{r}4\\4\overline{)16}\end{array}$

$\begin{array}{r}2\\5\overline{)10}\end{array}$ $\begin{array}{r}7\\4\overline{)28}\end{array}$ $\begin{array}{r}6\\6\overline{)36}\end{array}$ $\begin{array}{r}2\\4\overline{)8}\end{array}$ $\begin{array}{r}4\\6\overline{)24}\end{array}$

20

D 2

$\begin{array}{r}10\\9\overline{)90}\end{array}$ $\begin{array}{r}4\\6\overline{)24}\end{array}$ $\begin{array}{r}5\\8\overline{)40}\end{array}$ $\begin{array}{r}7\\8\overline{)56}\end{array}$ $\begin{array}{r}8\\6\overline{)48}\end{array}$

$\begin{array}{r}8\\8\overline{)64}\end{array}$ $\begin{array}{r}2\\7\overline{)14}\end{array}$ $\begin{array}{r}8\\9\overline{)72}\end{array}$ $\begin{array}{r}6\\10\overline{)60}\end{array}$ $\begin{array}{r}9\\3\overline{)27}\end{array}$

42÷6 = 7 40÷5 = 8 63÷7 = 9 54÷6 = 9

81÷9 = 9 42÷6 = 7 40÷5 = 8 63÷9 = 7

54÷6 = 9 32÷8 = 4 18÷2 = 9 49÷7 = 7

45÷9 = 5 21÷3 = 7 48÷8 = 6 40÷8 = 5

20

DIVISION PRE-TEST FORMB

D 3

```
   9          8          5         3
9/85       4/33       5/28      8/26
  81         32         25        24
   4          1          3         2
```

4

D 4

```
  12
3/36         4/93          7/680          3/369
  30 | 10      80 | 20      630 | 90       300 | 100
   6           13            50             69
   6 | 2       12 | 3        49 | 7         60 | 20
   0 | 12       1 | 23        1 | 97         9
                                             9 | 3
                                             0 | 123
```

4

D 5

```
28/440                      23/782
  280 | 10                    690 | 30
  160                          92
  140 | 6                      92 | 4
   20 | 16                      0 | 34
```

$\frac{81}{4}$ $\frac{32}{\boxed{1}}$ $\frac{25}{3}$ $\frac{24}{2}$

$\overline{4}$

D 4

```
   [12]
 3/36            4/93              7/680            3/369
   30 |[10]        80 |[20]         630 |90          300 |100
    6 |            13 |              50 |             69 |
    6 |[2]       [12] |[3]           49 | 7           60 | 20
    0 |[12]       [1] |[23]           1 |97            9 |
                                                       9 |  3
                                                       0 |123
```

$\overline{4}$

D 5

```
 28/440                         23/782
   280 |[10]                      690 |[30]
   160 |                           92 |
   140 |[6]                      [92] |[4]
    20 |[16]                      [0] |[34]

 26/339                         32/6591
   260 |10                       6400 |200
    79 |                          191 |
    78 | 3                        160 |  5
     1 |13                         31 |205
```

$\overline{4}$

D 6

1. Joe has 36 pieces of bubble gum. If he gives the same number to each of his four friends, how many pieces will each friend get?

(Show your work) Answer

9

2. Sally bought 8 apples at the store for 48¢. How much did each apple cost?

(Show your work) Answer

6

3. There are 130 children in fourth grade. If they are divided into five classes, how many children will be in each one?

(Show your work) Answer

26

(Show your work) Answer

9

2. Sally bought 8 apples at the store for 48¢. How much did each apple cost?

(Show your work) Answer

6

3. There are 130 children in fourth grade. If they are divided into five classes, how many children will be in each one?

(Show your work) Answer

26

4. There are 432 students in grades 3, 4, 5, and 6. They are going to the zoo in buses. Each bus can carry 48 students. How many buses will be needed?

(Show your work) Answer

9

4

Name ____________________
Team ____________________
Teacher __________________
Date _____________________

DIVISION POST-TEST FORM B

D 1

$18 \div 3 =$ $30 \div 5 =$ $9 \div 3 =$ $4 \div 2 =$

$12 \div 4 =$ $15 \div 3 =$ $20 \div 4 =$ $6 \div 3 =$

$25 \div 5 =$ $36 \div 6 =$

$6\overline{)0}$ $1\overline{)6}$ $4\overline{)16}$ $6\overline{)36}$

$4\overline{)8}$ $4\overline{)28}$ $2\overline{)12}$ $5\overline{)35}$

$8\overline{)16}$ $4\overline{)24}$

____
20

D 2

$81 \div 9 =$ $49 \div 7 =$ $18 \div 2 =$ $63 \div 9 =$

$21 \div 3 =$ $42 \div 6 =$ $40 \div 5 =$ $54 \div 6 =$

D 1

18÷3 = 30÷5 = 9÷3 = 4÷2 =

12÷4 = 15÷3 = 20÷4 = 6÷3 =

25÷5 = 36÷6 =

$6\overline{)0}$ $1\overline{)6}$ $4\overline{)16}$ $6\overline{)36}$

$4\overline{)8}$ $4\overline{)28}$ $2\overline{)12}$ $5\overline{)35}$

$8\overline{)16}$ $4\overline{)24}$

____ 20

D 2

81÷9= 49÷7= 18÷2= 63÷9=

21÷3= 42÷6= 40÷5= 54÷6=

45÷9= 32÷8=

$6\overline{)48}$ $8\overline{)40}$ $3\overline{)27}$ $7\overline{)14}$

$9\overline{)72}$ $10\overline{)60}$ $8\overline{)64}$ $9\overline{)90}$

$6\overline{)24}$ $8\overline{)56}$

____ 20

DIVISION POST-TEST FORM B

D 3

$\begin{array}{r} \boxed{} \\ 4\overline{)27} \\ \underline{24} \\ 3 \end{array}$ $\begin{array}{r} \boxed{} \\ 9\overline{)38} \\ \underline{36} \\ \boxed{} \end{array}$ $6\overline{)78}$ $4\overline{)53}$

---- 4

D 4

$\begin{array}{r|l} 3\overline{)34} & \\ \underline{30} & \boxed{} \\ 4 & \\ \underline{3} & \boxed{} \\ 1 & \boxed{} \end{array}$ $\begin{array}{r|l} 6\overline{)73} & \\ \underline{60} & \boxed{} \\ 13 & \\ \underline{} & \boxed{} \\ & \boxed{} \end{array}$ $4\overline{)829}$ $5\overline{)340}$

---- 4

D 5

$\begin{array}{r|l} 22\overline{)263} & \\ \underline{220} & \boxed{} \\ 43 & \\ \underline{22} & \boxed{} \\ & \boxed{} \end{array}$ $\begin{array}{r|l} 21\overline{)862} & \\ \underline{840} & \boxed{} \\ 22 & \\ \underline{} & \boxed{} \\ & \boxed{} \end{array}$

3 ☐

$\dfrac{\quad\quad}{4}$

D 4

3/34
30 ☐
4
3 ☐
1 ☐

6/73
60 ☐
13
☐
☐

4/829

5/340

$\dfrac{\quad\quad}{4}$

D 5

22/263
220 ☐
43
22 ☐
☐

21/862
840 ☐
22
☐
☐

41/953

37/5691

$\dfrac{\quad\quad}{4}$

DIVISION	POST-TEST	FORM B
D 6	1. There are 45 apples in 9 boxes. If there are the same number of apples in each box, how many apples are there per box? (Show your work)	Answer ----
	2. Sally walked 12 miles in 4 hours. If she walked the same number of miles each hour, how many miles per hour did she walk? (Show your work)	Answer ----
	3. Tom had 49 baseball cards to trade with 7 friends. If he gives each friend the same number of cards, how many cards does he give per friend? (Show your work)	Answer

in each box, how many apples are there per box?

(Show your work) Answer

----

2. Sally walked 12 miles in 4 hours. If she walked the same number of miles each hour, how many miles per hour did she walk?

(Show your work) Answer

----

3. Tom had 49 baseball cards to trade with 7 friends. If he gives each friend the same number of cards, how many cards does he give per friend?

(Show your work) Answer

----

4. Joe had 264 pieces of candy. He wanted to give 12 of his friends an equal number of pieces of candy. How much candy would each friend get?

(Show your work) Answer

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

DIVISION POST-TEST FORM B

D 1

18÷3 = 6 30÷5 = 6 9÷3 = 3 4÷2 = 2

12÷4 = 3 15÷3 = 5 20÷4 = 5 6÷3 = 2

25÷5 = 5 36÷6 = 6

$\begin{array}{r} 0 \\ 6\overline{)0} \end{array}$ $\begin{array}{r} 6 \\ 1\overline{)6} \end{array}$ $\begin{array}{r} 4 \\ 4\overline{)16} \end{array}$ $\begin{array}{r} 6 \\ 6\overline{)36} \end{array}$

$\begin{array}{r} 2 \\ 4\overline{)8} \end{array}$ $\begin{array}{r} 7 \\ 4\overline{)28} \end{array}$ $\begin{array}{r} 6 \\ 2\overline{)12} \end{array}$ $\begin{array}{r} 7 \\ 5\overline{)35} \end{array}$

$\begin{array}{r} 2 \\ 8\overline{)16} \end{array}$ $\begin{array}{r} 6 \\ 4\overline{)24} \end{array}$

____
20

D 2

81÷9 = 9 49÷7 = 7 18÷2 = 9 63÷9 = 7

21÷3 = 7 42÷6 = 7 40÷5 = 8 54÷6 = 9

DIVISION POST-TEST FORM B

D 1

18÷3 = 6 30÷5 = 6 9÷3 = 3 4÷2 = 2

12÷4 = 3 15÷3 = 5 20÷4 = 5 6÷3 = 2

25÷5 = 5 36÷6 = 6

$\begin{array}{r} 0 \\ 6\overline{)0} \end{array}$ $\begin{array}{r} 6 \\ 1\overline{)6} \end{array}$ $\begin{array}{r} 4 \\ 4\overline{)16} \end{array}$ $\begin{array}{r} 6 \\ 6\overline{)36} \end{array}$

$\begin{array}{r} 2 \\ 4\overline{)8} \end{array}$ $\begin{array}{r} 7 \\ 4\overline{)28} \end{array}$ $\begin{array}{r} 6 \\ 2\overline{)12} \end{array}$ $\begin{array}{r} 7 \\ 5\overline{)35} \end{array}$

$\begin{array}{r} 2 \\ 8\overline{)16} \end{array}$ $\begin{array}{r} 6 \\ 4\overline{)24} \end{array}$

20

D 2

81÷9 = 9 49÷7 = 7 18÷2 = 9 63÷9 = 7

21÷3 = 7 42÷6 = 7 40÷5 = 8 54÷6 = 9

45÷9 = 5 32÷8 = 4

$\begin{array}{r} 8 \\ 6\overline{)48} \end{array}$ $\begin{array}{r} 5 \\ 8\overline{)40} \end{array}$ $\begin{array}{r} 9 \\ 3\overline{)27} \end{array}$ $\begin{array}{r} 2 \\ 7\overline{)14} \end{array}$

$\begin{array}{r} 8 \\ 9\overline{)72} \end{array}$ $\begin{array}{r} 6 \\ 10\overline{)60} \end{array}$ $\begin{array}{r} 8 \\ 8\overline{)64} \end{array}$ $\begin{array}{r} 10 \\ 9\overline{)90} \end{array}$

$\begin{array}{r} 4 \\ 6\overline{)24} \end{array}$ $\begin{array}{r} 8 \\ 8\overline{)56} \end{array}$

20

DIVISION POST-TEST FORM B

D 3

$\boxed{6}$
$4\overline{)27}$
24
3

$\boxed{4}$
$9\overline{)38}$
36
$\boxed{2}$

13
$6\overline{)78}$
60
18
18

13 r. 1
$4\overline{)53}$
40
13
12
1

4

D 4

$3\overline{)34}$
30 | $\boxed{10}$
4
3 | $\boxed{1}$
1 | $\boxed{11}$

$6\overline{)73}$
60 | $\boxed{10}$
13
12 | $\boxed{2}$
1 | $\boxed{12}$

207 r. 1
$4\overline{)829}$
800 | 200
29
28 | 7
1 | 207

68
$5\overline{)340}$
300 | 60
40
40 | 8
| 68

4

D 5

$22\overline{)263}$
220 | $\boxed{10}$
43
22 | $\boxed{1}$
21 | $\boxed{11}$

$21\overline{)862}$
840 | $\boxed{40}$
22
21 | $\boxed{1}$
1 | $\boxed{41}$

203 r. 10
$41\overline{)953}$

153 r. 30
$37\overline{)5691}$

3 $\boxed{2}$ $\begin{array}{r}18\\18\\\hline\end{array}$ $\begin{array}{r}13\\12\\\hline 1\end{array}$

$\frac{----}{4}$

D 4

$$\begin{array}{r|l} 3\overline{)34} & \\ 30 & \boxed{10} \\ \hline 4 & \\ 3 & \boxed{1} \\ \hline 1 & \boxed{11} \end{array} \qquad \begin{array}{r|l} 6\overline{)73} & \\ 60 & \boxed{10} \\ \hline 13 & \\ 12 & \boxed{2} \\ \hline 1 & \boxed{12} \end{array} \qquad \begin{array}{r|l} \multicolumn{2}{l}{207 \text{ r. } 1} \\ 4\overline{)829} & \\ 800 & 200 \\ \hline 29 & \\ 28 & 7 \\ \hline 1 & 207 \end{array} \qquad \begin{array}{r|l} \multicolumn{2}{l}{68} \\ 5\overline{)340} & \\ 300 & 60 \\ \hline 40 & \\ 40 & 8 \\ \hline & 68 \end{array}$$

$\frac{----}{4}$

D 5

$$\begin{array}{r|l} 22\overline{)263} & \\ 220 & \boxed{10} \\ \hline 43 & \\ 22 & \boxed{1} \\ \hline 21 & \boxed{11} \end{array} \qquad \begin{array}{r|l} 21\overline{)862} & \\ 840 & \boxed{40} \\ \hline 22 & \\ 21 & \boxed{1} \\ \hline 1 & \boxed{41} \end{array}$$

$$\begin{array}{r|l} \multicolumn{2}{l}{203 \text{ r. } 10} \\ 41\overline{)953} & \\ 820 & 200 \\ \hline 133 & \\ 123 & 3 \\ \hline 10 & 203 \end{array} \qquad \begin{array}{r|l} \multicolumn{2}{l}{153 \text{ r. } 30} \\ 37\overline{)5691} & \\ 3700 & 100 \\ \hline 1991 & \\ 1850 & 50 \\ \hline 141 & \\ 111 & 3 \\ \hline 30 & 153 \end{array}$$

$\frac{----}{4}$

D 6

1. There are 45 apples in 9 boxes. If there are the same number of apples in each box, how many apples are there per box?

(Show your work) Answer

$45 \div 9 = 5$

5

2. Sally walked 12 miles in 4 hours. If she walked the same number of miles each hour, how many miles per hour did she walk?

(Show your work) Answer

$12 \div 4 = 3$

3

3. Tom had 49 baseball cards to trade with 7 friends. If he gives each friend the same number of cards, how many cards does he give per friend?

(Show your work) Answer

in each box, how many apples are there per box?

(Show your work) Answer

$45 \div 9 = 5$

5

2. Sally walked 12 miles in 4 hours. If she walked the same number of miles each hour, how many miles per hour did she walk?

(Show your work) Answer

$12 \div 4 = 3$

3

3. Tom had 49 baseball cards to trade with 7 friends. If he gives each friend the same number of cards, how many cards does he give per friend?

(Show your work) Answer

$49 \div 7 = 7$

7

4. Joe had 264 pieces of candy. He wanted to give 12 of his friends an equal number of pieces of candy. How much candy would each friend get?

(Show your work) Answer

$264 \div 12 = 22$

22

NAME ____________________

TEAM ____________________

TEACHER ____________________

DATE ____________________

FORM A or B (Circle one)

MULTIPLICATION - DIVISION

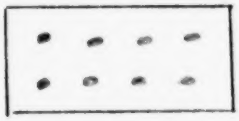
	Pre-Test	Program	Post-Test	Comment
M-D1 Concepts	____ 4		____ 4	
M-D2 Mult-Division facts to 4 x 9 and 40 ÷ 5	____ 20		____ 20	
M-D3 Story Problems	____ 4		____ 4	
M-D4 Family of facts	____ 4		____ 4	
M-D5 M-D facts to 9 x 9 and 50 ÷ 10	____ 20		____ 20	
M-D6 Prime numbers common factory	____ 4		____ 4	
Supplementary work				

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

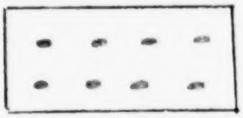
MULTIPLICATION - DIVISION PRE-TEST FORM B

MD 1

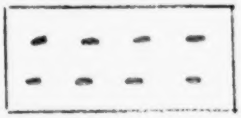
Circle the multiplication equation that is the same as the sets below:



6 X 6 = 36



3 X 6 = 18



3 X 8 = 24

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5

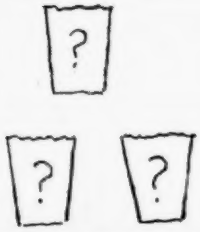
5 X 5 = 25   6 X 5 = 30   7 X 5 = 35

Study this chart:

20 - 5 = 15
15 - 5 = 10
10 - 5 = 5
5 - 5 = 0

How many fives are subtracted to get from 25 to 0? ____

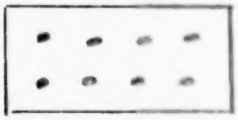
20 jelly-beans



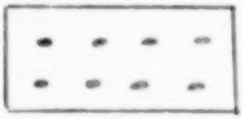
There is the same number of jellybeans in each bag? ____

MD 1

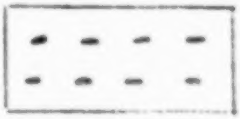
Circle the multiplication equation that is the same as the sets below:



6 X 6 = 36



3 X 6 = 18



3 X 8 = 24

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5

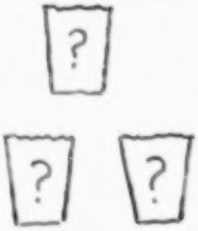
5 X 5 = 25 6 X 5 = 30 7 X 5 = 35

Study this chart:

20 - 5 = 15
15 - 5 = 10
10 - 5 = 5
5 - 5 = 0

How many fives are subtracted to get from 25 to 0? ____

20 jelly-beans



There is the same number of jellybeans in each bag? ____

____
4

MD 2

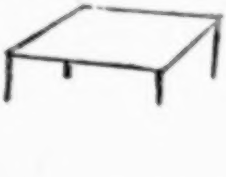
4 X 9 = ___ 2 X 3 = ___ 4 X 5 = ___ 0 X 1 = ___
3 X 7 = ___ 4 X 3 = ___ 3 X 5 = ___ 4 X 2 = ___
3 X 3 = ___ 2 X 6 = ___ 25÷ 5 = ___ 18÷ 2 = ___
40÷ 5 = ___ 18÷ 3 = ___ 4÷ 2 = ___ 27÷ 3 = ___
10÷ 2 = ___ 24÷ 3 = ___ 16÷ 4 = ___ 8÷ 4 = ___

____
20

MD 3

How many legs do 4 tables have? ______

Show your work



MD 3 Four nickels have how many cents? ______

(Show your work)

A grasshopper jumped 6 feet in 3 equal leaps. How long was each leap?

(Show your work) ______

A boy had 30 marbles. He wanted to make 6 equal piles. How many marbles were in each pile?

(Show your work) ______

You may draw your answer to this problem.

____ 4

MD 4 Write the family of facts for this set of two factors and a product:

(2, 6, 12)

____

____

____

A grasshopper jumped 6 feet in 3 equal leaps. How long was each leap?

(Show your work)

A boy had 30 marbles. He wanted to make 6 equal piles. How many marbles were in each pile?

(Show your work)

You may draw your answer to this problem.

4

MD 4 Write the family of facts for this set of two factors and a product:

(2, 6, 12)

4

MD 5 6X5 = 8X3= 9X6= 6X6= 7X3=

9X9= 8X4= 6X7= 7X8= 6X3=

50÷10= 35÷5= 63÷7= 72÷9=

49÷7= 40÷8= 8÷8= 64÷8=

45÷5= 14÷7=

MD 6

List the prime numbers from 0 to 21:

____

Name all the factors of 16:

____

{Factors of 18} = (1,2,3,6,9,18)

{Factors of 24} = (1,2,3,4,8,12,24)

What are the common factors of 18 and 24?

____

Solve this equation: Fill in the missing numbers:

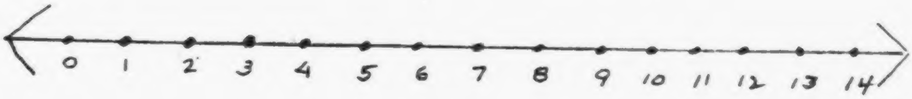
48 + 32 = (___X8) + (___X8)
= (___+___) X 8
= ___ X 8
= ___

___
4

AS 14

Show each pair of equations on the number line:

$3 + 6 = 9$ $\quad$ $6 + 3 = 9$



Complete the equations:

$$\begin{aligned} 4+2 &= 4 = (1+1) \\ &= (4 + \_\_\_) + 1 \\ &= \_\_\_ + 1 \\ &= \_\_\_ \end{aligned} \qquad \begin{aligned} 21+5 &= (20 = 1) + 5 \\ &= 20 + (\_\_\_ + 5) \\ &= 20 + \_\_\_\_ \\ &= \_\_\_ \end{aligned}$$

4

AS 15

Watch the signs!!

$ .86	$5.69	$3.42	$2.08
+ .02	+3.26	-1.95	- .79

4

AS 16

Base 5

4	13	22	434
+ 3	+ 2	+34	+344

4

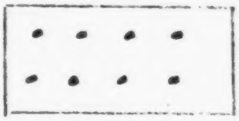
KEY

Name ____________________
Team ____________________
Teacher____________________
Date ____________________

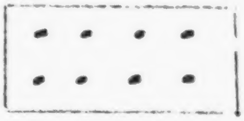
MULTIPLICATION - DIVISION PRE-TEST . FORM B

MD I

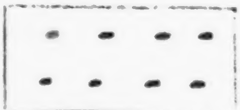
Circle the multiplication equation that is the same as the sets below:



6 X 6 = 36



3 X 6 = 18



[✓ 3 X 8 = 24]

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5

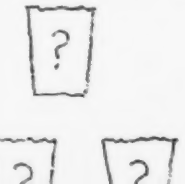
5 X 5 = 25   [✓ 6 X 5 = 30]   7 X 5 = 35

Study this chart:

20 - 5 = 15
15 - 5 = 10
10 - 5 = 5
5 - 5 = 0

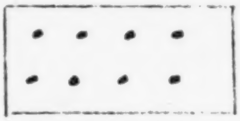
How many fives are subtracted to get from 25 to 0? 5

20 jelly-beans

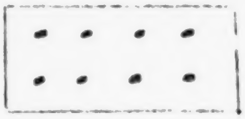


There is the same number of jellybeans in each bag? no

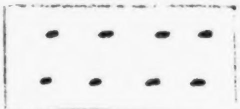
MD 1 Circle the multiplication equation that is the same as the sets below:



6 X 6 = 36



3 X 6 = 18



[✓ 3 X 8 = 24]

Circle the multiplication equation that has the same answer as 5+5+5+5+5+5

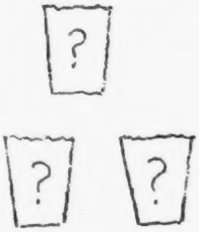
5 X 5 = 25   [✓ 6 X 5 = 30]   7 X 5 = 35

Study this chart:

20 - 5 = 15
15 - 5 = 10
10 - 5 = 5
5 - 5 = 0

How many fives are subtracted to get from 25 to 0? 5

20 jelly-beans



There is the same number of jellybeans in each bag? no

4

MD 2
4 X 9 = 36   2 X 3 = 6   4 X 5 = 20   0 X 1 = 1
3 X 7 = 21   4 X 3 = 12   3 X 5 = 15   4 X 2 = 8
3 X 3 = 9   2 X 6 = 12   25 ÷ 5 = 5   18 ÷ 2 = 9
40 ÷ 5 = 8   18 ÷ 3 = 6   4 ÷ 2 = 2   27 ÷ 3 = 9
10 ÷ 2 = 5   24 ÷ 3 = 8   16 ÷ 4 = 4   8 ÷ 4 = 2

20

MD 3 How many legs do 4 tables have? 16

Show your work

MD 3 Four nickels have how many cents? 20

(Show your work)

A grasshopper jumped 6 feet in 3 equal leaps. How long was each leap?

(Show your work) 2

A boy had 30 marbles. He wanted to make 6 equal piles. How many marbles were in each pile?

(Show your work) 5

You may draw your answer to this problem.

4

MD 4 Write the family of facts for this set of two factors and a product:

(2, 6, 12)

2 × 6 = 12

6 × 2 = 12

12 ÷ 6 = 2

A grasshopper jumped 6 feet in 3 equal leaps. How long was each leap?

(Show your work) 2

A boy had 30 marbles. He wanted to make 6 equal piles. How many marbles were in each pile?

(Show your work) 5

You may draw your answer to this problem.

4

MD 4 Write the family of facts for this set of two factors and a product:

(2, 6, 12)

2 × 6 = 12

6 × 2 = 12

12 ÷ 6 = 2

12 ÷ 2 = 6

4

MD 5

6X5 = 30 8X3 = 24 9X6 = 54 6X6 = 36 7X3 = 21

9X9 = 81 8X4 = 32 6X7 = 42 7X8 = 56 6X3 = 18

50 ÷ 10 = 5 35 ÷ 5 = 7 63 ÷ 7 = 9 72 ÷ 9 = 8

49 ÷ 7 = 7 40 ÷ 8 = 5 8 ÷ 3 = 1 64 ÷ 8 = 8

45 ÷ 5 = 9 14 ÷ 7 = 2

MD 6 List the prime numbers from 0 to 21:

0 - 3 - 5 - 7 - 11 - 13 - 17 - 19 - 21

Name all the factors of 16:

2 - 4 - 6 - 8 - 16

{Factors of 18} = (1, 2, 3, 6, 9, 18)

{Factors of 24} = (1, 2, 3, 4, 8, 12, 24)

What are the common factors of 18 and 24?

1 - 2 - 3

Solve this equation: Fill in the missing numbers:

Name all the factors of 16:

2-4-6-8-16

{Factors of 18} = (1,2,3,6,9,18)

{Factors of 24} = (1,2,3,4,8,12,24)

What are the common factors of 18 and 24?

1-2-3

Solve this equation: Fill in the missing numbers:

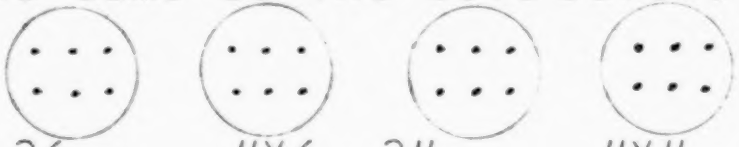
48 + 32 = (6 X8) + (4 X8)
= (6 + 4) X 8
= 10 X 8
= 80

4

Name ______________________
Team ______________________
Teacher ______________________
Date ______________________

MULTIPLICATION-DIVISION POST-TEST FORM B

MD 1 - Circle the multiplication equation that is the same as the sets below:



6X6 = 36 4X6 = 24 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8+8

8X8 = 64 6X5 = 30 6X8 = 48

7X8 = 56

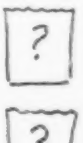
Study this chart:

15 - 3 = 12
12 - 3 = 9
9 - 3 = 6
6 - 3 = 3
3 - 3 = 0

How many 3's are subtracted to get from 15 to 0? _____

---

18 marbles

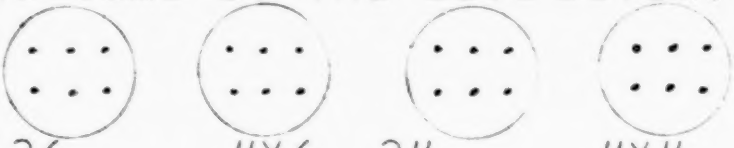


There is the same number of marbles in each bag. How

MULTIPLICATION-DIVISION POST-TEST FORM B

MD 1

Circle the multiplication equation that is the same as the sets below:



6X6 = 36 4X6 = 24 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8+8

8X8 = 64 6X5 = 30 6X8 = 48

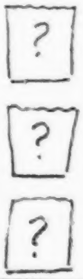
7X8 = 56

Study this chart:

15 - 3 = 12
12 - 3 = 9
9 - 3 = 6
6 - 3 = 3
3 - 3 = 0

How many 3's are subtracted to get from 15 to 0? _____

18 marbles



There is the same number of marbles in each bag. How many are in each bag? ________

____
4

MD 2

9X4 = 2X3 = 4X5 = 0X1 = 3X7 =

4X3 = 3X5 = 4X2 = 3X3 = 2X6 =

25÷5 = 18÷2 = 40÷5 = 18÷3 = 4÷2 =

27÷3 = 10÷2 = 24÷3 = 16÷4 = 8÷4 =

____
20

MD 3

Show how many legs do 6 cats have? _____

(Show your work)

MD 3 (cont'd.)

How many cents are there in 7 nickels?

(Show your work) -------

A grasshopper jumped 20 feet in 5 equal leaps. How long was each leap?

(Show your work) -------

Bob had 6 baskets of apples. Each basket had 5 apples in it. How many apples did he have in all?

(Show your work) -------

---- 4

MD 4

Write the family of facts for this set of two factors and a product:

(3, 6, 18)

---- 4

MD 5

6X5 = 8X3 = 9X6 = 6X6 = 7X3 =

A grasshopper jumped 20 feet in 5 equal leaps. How long was each leap?

(Show your work) -------

Bob had 6 baskets of apples. Each basket had 5 apples in it. How many apples did he have in all?

(Show your work) ------

---- 4

MD 4 Write the family of facts for this set of two factors and a product:

(3, 6, 18)

---- 4

MD 5

6X5 = 8X3 = 9X6 = 6X6 = 7X3 =

9X9 = 8X4 = 6X7 = 7X8 = 6X3 =

50÷10 = 35÷5 = 63÷7 = 72÷9 =

49÷7 = 40÷8 = 8÷8 = 64÷8 =

45÷5 = 14÷7 =

---- 20

MD 6 List the prime numbers from 0 to 30:

____

Name all the factors of 32:

____

$\{\text{factors of } 24\} = \{1,2,3,4,6,8,12,24\}$

$\{\text{factors of } 30\} = \{1,2,3,5,6,10,15,30\}$

what are the common factors of 24 and 30?

____

Solve this equation:

Fill in the missing numbers:

$32+56 = (\_\_\_ \times 8) = (\_\_\_ \times 8)$

$= (\_\_\_ + \_\_\_) \times 8$

$= \_\_\_ \times 8$

$= \_\_\_$

____

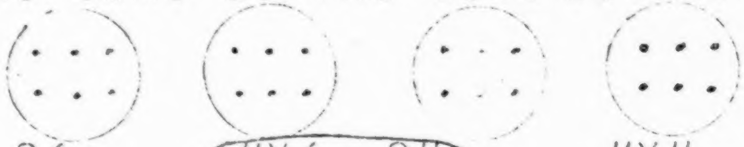
4

Key

Name
Team
Teacher
Date

MULTIPLICATION-DIVISION POST-TEST FORM B

MD I Circle the multiplication equation that is the same as the sets below:



6X6 = 36 [✓ 4X6 = 24] 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8+8

8X8 = 64 6X5 = 30 6X8 = 48

[✓ 7X8 = 56]

Study this chart:

15 - 3 = 12
12 - 3 = 9
9 - 3 = 6
6 - 3 = 3
3 - 3 = 0

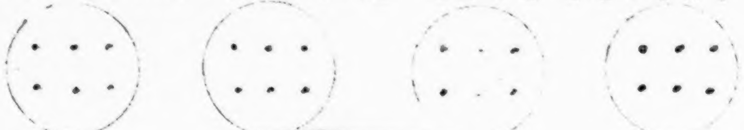
How many 3's are subtracted to get from 15 to 0? 5

18 marbles

There is the same

MULTIPLICATION-DIVISION POST-TEST FORM B

MD 1 Circle the multiplication equation that is the same as the sets below:



6X6 = 36 [✓ 4X6 = 24] 4X4 = 16

Circle the multiplication equation that has the same answer as:

8+8+8+8+8+8+8

8X8 = 64 6X5 = 30 6X8 = 48

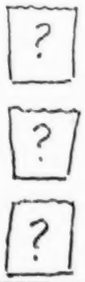
[✓ 7X8 = 56]

Study this chart:

15 - 3 = 12
12 - 3 = 9
9 - 3 = 6
6 - 3 = 3
3 - 3 = 0

How many 3's are subtracted to get from 15 to 0? 5

18 marbles



There is the same number of marbles in each bag. How many are in each bag? 6

4

MD 2

9X4 = 36 2X3 = 6 4X5 = 20 0X1 = 1 3X7 = 21
4X3 = 12 3X5 = 15 4X2 = 8 3X3 = 9 2X6 = 12
25÷5 = 5 18÷2 = 9 40÷5 = 8 18÷3 = 6 4÷2 = 2
27÷3 = 9 10÷2 = 5 24÷3 = 8 16÷4 = 4 8÷4 = 2

20

MD 3 Show how many legs do 6 cats have? 24

(Show your work)

MD 3
(cont'd.)

How many cents are there in 7 nickels?

(Show your work) 35

A grasshopper jumped 20 feet in 5 equal leaps. How long was each leap?

(Show your work) 4

Bob had 6 baskets of apples. Each basket had 5 apples in it. How many apples did he have in all?

30

(Show your work)

4

MD 4 Write the family of facts for this set of two factors and a product:

(3, 6, 18)

$3 \times 6 = 18$

A grasshopper jumped 20 feet in 5 equal leaps. How long was each leap?

(Show your work) ___4___

Bob had 6 baskets of apples. Each basket had 5 apples in it. How many apples did he have in all?

(Show your work) ___30___

___
4

MD 4 Write the family of facts for this set of two factors and a product:

(3, 6, 18)

__3 × 6 = 18__

__6 × 3 = 18__

__18 ÷ 6 = 3__

__18 ÷ 3 = 6__

___
4

MD 5

6X5 = 30 8X3 = 24 9X6 = 54 6X6 = 36 7X3 = 21

9X9 = 81 8X4 = 32 6X7 = 42 7X8 = 56 6X3 = 18

50÷10 = 5 35÷5 = 7 63÷7 = 9 72÷9 = 8

49÷7 = 7 40÷8 = 5 8÷8 = 1 64÷8 = 8

45÷5 = 9 14÷7 = 2

___
20

MD 6 List the prime numbers from 0 to 30:

0-1-3-5-7-11-13-17-19-23-29

Name all the factors of 32:

0-1-2-4-8-16-32

{factors of 24} = {1, 2, 3, 4, 6, 8, 12, 24}

{factors of 30} = {1, 2, 3, 5, 6, 10, 15, 30}

What are the common factors of 24 and 30?

1-2-3-6

Solve this equation:

Fill in the missing numbers:

32+56 = (4 X8) = (7 X8)

Name all the factors of 32:

0-1-2-4-8-16-32

{factors of 24} = {1, 2, 3, 4, 6, 8, 12, 24}

{factors of 30} = {1, 2, 3, 5, 6, 10, 15, 30}

What are the common factors of 24 and 30?

1-2-3-6

Solve this equation:

Fill in the missing numbers:

32+56 = (4 X8) = (7 X8)
= (4 + 7) X 8
= 11 X 8
= 88

NAME ______________________

TEAM ____________ DATE ____________

TEACHER ______________________

FORM A or B (Circle one)

FRACTIONS

	Pre-Test	Program	Post-Test	Comment
UNIT I F1 Concepts	___ 5		___ 5	
F2 Order from Small to large	___ 3		___ 3	
F3 Equivalent fractions	___ 6		___ 6	
F4 Add-subtract like denominators	___ 6		___ 6	
UNIT II F5 Denominator numerator	___ 2		___ 2	
F6 Rename in simpler form	___ 6		___ 6	
F7 Comparing fractions	___ 2		___ 2	
F8 Renaming fractions	___ 8		___ 8	
F Reducing to Simpler form	___ 4		___ 4	

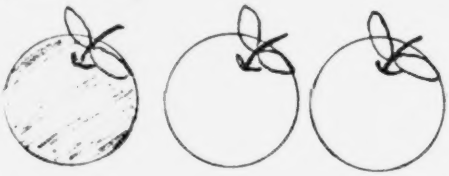
F1 Concepts	$\frac{}{5}$		$\frac{}{5}$	
F2 Order from Small to large	$\frac{}{3}$		$\frac{}{3}$	
F3 Equivalent fractions	$\frac{}{6}$		$\frac{}{6}$	
F4 Add-subtract like denominators	$\frac{}{6}$		$\frac{}{6}$	
UNIT II				
F5 Denominator numerator	$\frac{}{2}$		$\frac{}{2}$	
F6 Rename in simpler form	$\frac{}{6}$		$\frac{}{6}$	
F7 Comparing fractions	$\frac{}{2}$		$\frac{}{2}$	
F8 Renaming fractions	$\frac{}{8}$		$\frac{}{8}$	
F9 Reducing to Simpler form	$\frac{}{4}$		$\frac{}{4}$	
UNIT III				
F10 Add subtract like denominators	$\frac{}{4}$		$\frac{}{4}$	
F11 Mixed fractions	$\frac{}{3}$		$\frac{}{3}$	
F12 < > =	$\frac{}{3}$		$\frac{}{3}$	
F13 Equivalent fractions	$\frac{}{8}$		$\frac{}{8}$	
F14	$\frac{}{4}$		$\frac{}{4}$	
F15	$\frac{}{4}$		$\frac{}{4}$	

Name ______________________________
Team ______________________________
Teacher ____________________________
Date ______________________________

FRACTIONS PRE-TEST UNIT I FORM B

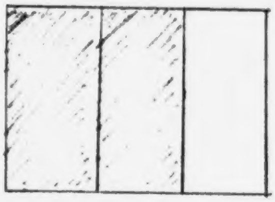
F I

Write a fraction to compare the number of shaded objects with the total number of objects.



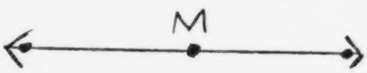
Answer

Write the fraction for the shaded region.



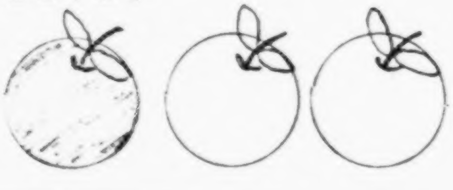
Answer

Name the fractional number labeled by M on the number line.



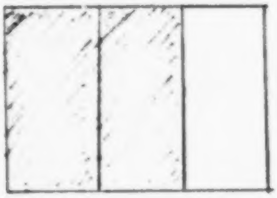
Answer

F 1 Write a fraction to compare the number of shaded objects with the total number of objects.



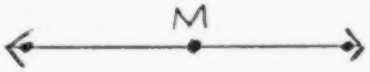
Answer

Write the fraction for the shaded region.



Answer

Name the fractional number labeled by M on the number line.



Answer

Divide this circle into eighths.
Mark each with the symbol 1/8.
Color 1/8 of the circle.

5

F 2 On the lines, list these fractions in order from smallest to largest.

1. 1/8 ----
3/4 ----
1/2 ----
2/3 ----
1/4 ----
----

2. Which is larger?
1/4 or 1/6 ----
2/3 or 1/2 ----

F 3

The equal sign (=) means "the same size as". Write another fraction that is the same size as each of these.

2/4 ______ 6/8 ______
2/6 ______ 2/8 ______
5/10 _____ 1/2 ______

____
6

F 4

Add or subtract the following fractions. Watch the signs!

1/4 + 1/4 = ____ 2/3 + 1/3 = ____
2/8 + 3/8 = ____ 6/6 - 4/6 = ____
3/4 + 1/4 = ____ 4/5 - 2/5 = ____

____
6

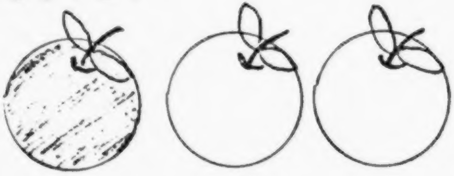
KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTIONS PRE-TEST UNIT I FORM B

F 1

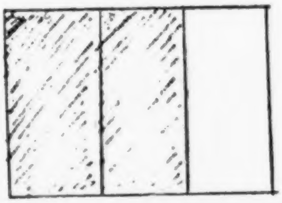
Write a fraction to compare the number of shaded objects with the total number of objects.



Answer

1/3

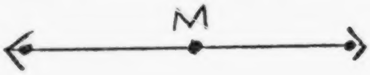
Write the fraction for the shaded region.



Answer

2/3

Name the fractional number labeled by M on the number line.

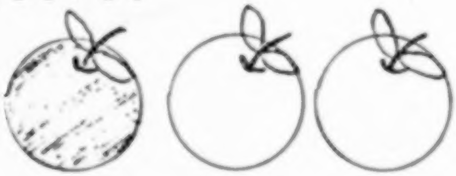


Answer

1/2

Divide this circle into eighths.

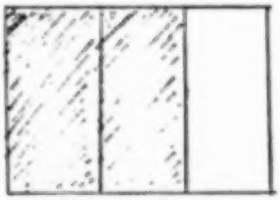
of shaded objects with the total number of objects.



Answer

1/3

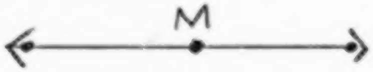
Write the fraction for the shaded region.



Answer

2/3

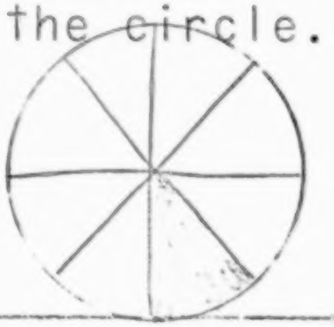
Name the fractional number labeled by M on the number line.



Answer

1/2

Divide this circle into eighths.
Mark each with the symbol 1/8.
Color 1/8 of the circle.



5

F 2 On the lines, list these fractions in order from smallest to largest.

1. 1/8 1/8
3/4 1/4
1/2 1/2
2/3 2/3
1/4

2. Which is larger?
1/4 or 1/6 1/4
2/3 or 1/2 2/3

FRACTIONS PRE-TEST UNIT I FORM B

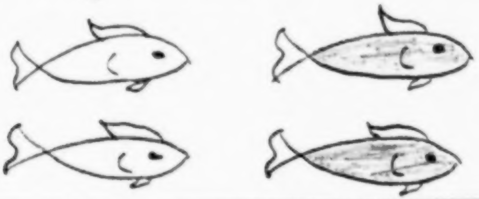
F 3 ____ 6	The equal sign (=) means "the same size as". Write another fraction that is the same size as each of these. 2/4 __1/2__ 6/8 __3/4__ 2/6 __1/3__ 2/8 __1/4__ 5/10 __2/5__ 1/2 __2/4__
F 4 ____ 6	Add or subtract the following fractions. Watch the signs! 1/4 + 1/4 = __2/4__ 2/3 + 1/3 = __3/3__ 2/8 + 3/8 = __5/8__ 6/6 - 4/6 = __2/6__ 3/4 + 1/4 = __4/4__ 4/5 - 2/5 = __2/5__

Name____________________
Team ____________________
Teacher____________________
Date ____________________

FRACTIONS POST-TEST UNIT I FORM B

F I

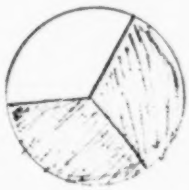
Write a fraction to compare the number of shaded objects with the total number of objects.



Answer

----

Write a fraction for the shaded region.

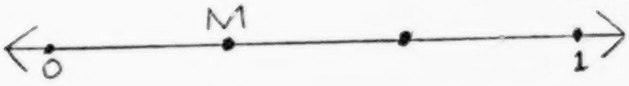


Answer

----

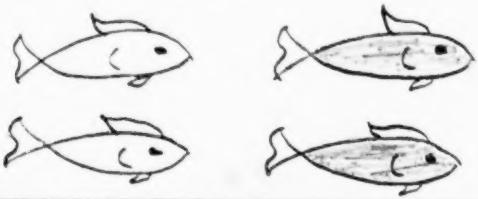
Name the fractional number labeled by M on the number line

Answer



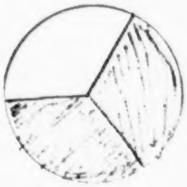
F 1

Write a fraction to compare the number of shaded objects with the total number of objects.



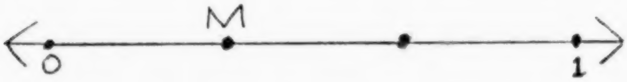
Answer

Write a fraction for the shaded region.



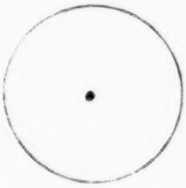
Answer

Name the fractional number labeled by M on the number line



Answer

Divide this circle into sixths. Mark each with the symbol 1/6. Color 3/6 of the circle.



5

F 2

On the lines, list these fractions in order from largest to smallest.

1. 1/2 -----
1/8 -----
3/4 -----
1/4 -----
2/3 -----

2. Which is smaller?

1/3 or 1/8 -----

1/8 or 1/2 -----

3

FRACTIONS POST-TEST UNIT I FORM B

F 3

Use these tables to complete the equations

<table>
<tr><td colspan="8">WHOLE</td></tr>
<tr><td colspan="4">1/2</td><td colspan="4">1/2</td></tr>
<tr><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td></tr>
<tr><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td></tr>
</table>

<table>
<tr><td colspan="6">WHOLE</td></tr>
<tr><td colspan="3">1/2</td><td colspan="3">1/2</td></tr>
<tr><td colspan="2">1/3</td><td colspan="2">1/3</td><td colspan="2">1/3</td></tr>
<tr><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td></tr>
</table>

3/6 = 1/_____ 2/3 = 4/_____ 1/3 = __/6_

3/4 = 6/_____ 1/4 = _/8__ 1/2 = __/4_

____
6

F 4

Add or subtract the fractions below. Watch the signs!

2/8 + 2/8 = _____ 6/6 - 2/6 = ______

1/4 + 2/4 = ______ 4/5 - 2/5 = ______

2/3 + 1/3 = ______ 5/8 - 3/8 = ______

____
6

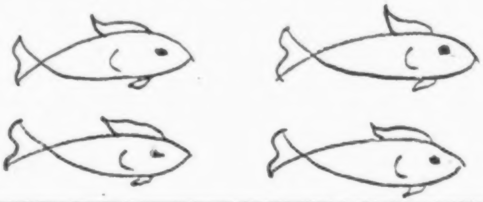
KEY

Name____________________
Team ____________________
Teacher____________________
Date ____________________

FRACTIONS POST-TEST UNIT I FORM B

F I

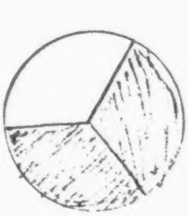
Write a fraction to compare the number of shaded objects with the total number of objects.



Answer

1/2

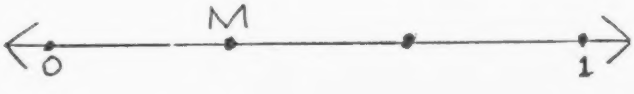
Write a fraction for the shaded region.



Answer

2/3

Name the fractional number labeled by M on the number line

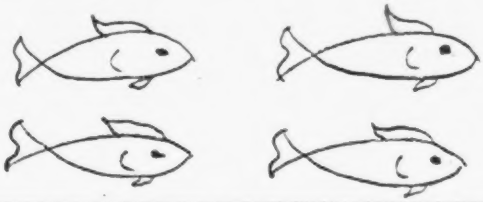


Answer

1/3

F 1

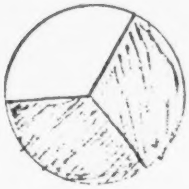
Write a fraction to compare the number of shaded objects with the total number of objects.



Answer

1/2

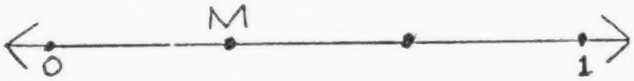
Write a fraction for the shaded region.



Answer

2/3

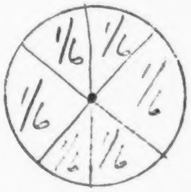
Name the fractional number labeled by M on the number line



Answer

1/3

Divide this circle into sixths. Mark each with the symbol 1/6. Color 3/6 of the circle.



5

F 2

On the lines, list these fractions in order from largest to smallest.

1. 1/2 1/8
1/8 1/4
3/4 1/2
1/4 2/3
2/3 3/4

2. Which is smaller?

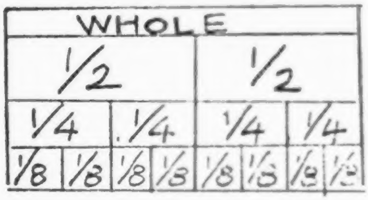
1/3 or 1/8 1/8

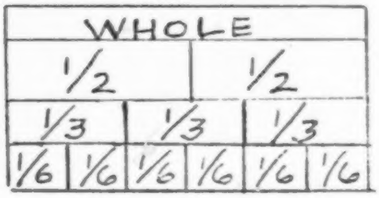
1/8 or 1/2 1/8

3

FRACTIONS POST-TEST UNIT I FORM B

F 3 Use these tables to complete the equations:


WHOLE
1/2
1/2
1/4
1/4
1/4
1/4
1/8
1/8
1/8
1/8
1/8
1/8
1/8
1/8


WHOLE
1/2
1/2
1/3
1/3
1/3
1/6
1/6
1/6
1/6
1/6
1/6

3/6 = 1/2 2/3 = 4/6 1/3 = 2/6

3/4 = 6/8 1/4 = 2/8 1/2 = 2/4

6

F 4 Add or subtract the fractions below. Watch the signs!

2/8 + 2/8 = 4/8 6/6 - 2/6 = 4/6

1/4 + 2/4 = 3/4 4/5 - 2/5 = 2/5

<table>
<tr><td colspan="8">WHOLE</td></tr>
<tr><td colspan="4">1/2</td><td colspan="4">1/2</td></tr>
<tr><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td><td colspan="2">1/4</td></tr>
<tr><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td><td>1/8</td></tr>
</table>

<table>
<tr><td colspan="6">WHOLE</td></tr>
<tr><td colspan="3">1/2</td><td colspan="3">1/2</td></tr>
<tr><td colspan="2">1/3</td><td colspan="2">1/3</td><td colspan="2">1/3</td></tr>
<tr><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td><td>1/6</td></tr>
</table>

3/6 = 1/2 2/3 = 4/6 1/3 = 2/6

3/4 = 6/8 1/4 = 2/8 1/2 = 2/4

6

F 4

Add or subtract the fractions below. Watch the signs!

2/8 + 2/8 = 4/8 6/6 - 2/6 = 4/6

1/4 + 2/4 = 3/4 4/5 - 2/5 = 2/5

2/3 + 1/3 = 3/3 5/8 - 3/8 = 2/8

6

Name____________________
Team____________________
Teacher____________________
Date____________________

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 5 Look at this example:

{ ▲ ▲ △ △ △ } = 2/5

The 5 names the number of objects in the set. This is called the ______________.

The 2 names the number of objects being compared to the total set. This is called a ______________.

$\frac{\quad}{2}$

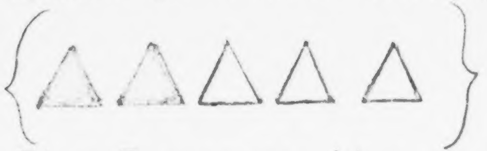
F 6 Rename each numeral in a simpler form:

3 X 1/5 = _____ 1/8+2/8+2/8 = ___X 1/8 = ___
9 X 1/10=_____ 1/7+3/7+2/7 = ___X 1/7 = ___

$\frac{\quad}{6}$

F 7 Solve the following problems:

F 5 Look at this example:


= 2/5

The 5 names the number of objects in the set. This is called the ____________.

The 2 names the number of objects being compared to the total set. This is called a _____________.

2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = _____ 1/8+2/8+2/8 = ___ X 1/8 = ___

9 X 1/10= _____ 1/7+3/7+2/7 = ___ X 1/7 = ___

6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples are green."

Bill said, "Two-eighths of the apples are green."

Are Brenda and Bill talking about the same number of apples? ________

******

Sandra said, "Six-eighths of the oranges are green."

Margo said, "Two-thirds of the oranges are green."

Are Sandra and Margo talking about the same number of oranges? ________

2

F 8 Complete these equations:

$4/8 = \frac{\boxed{} \times 1}{\boxed{} \times 2}$ $8/12 = \frac{4 \times \boxed{}}{4 \times \boxed{}}$

$9/12 = \frac{\boxed{} \times 3}{\boxed{} \times 4}$ $6/9 = \frac{3 \times \boxed{}}{3 \times \boxed{}}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\boxed{}}{\boxed{}}$ $3/6 = \frac{\boxed{} \div 3}{\boxed{} \div 3} = 1/2$

$9/12 = \frac{9 \div \boxed{}}{12 \div 3} = \frac{3}{\boxed{}}$ $4/10 = \frac{\boxed{} \div 2}{10 \div \boxed{}} = 2/5$

8

F 9 Write each fraction in the simplest form:

$4/8 = \frac{\square \times 1}{\square \times 2}$ $8/12 = \frac{4 \times \square}{4 \times \square}$

$9/12 = \frac{\square \times 3}{\square \times 4}$ $6/9 = \frac{3 \times \square}{3 \times \square}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$ $3/6 = \frac{\square \div 3}{\square \div 3} = 1/2$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$ $4/10 = \frac{\square \div 2}{10 \div \square} = 2/5$

8

F 9 Write each fraction in the simplest form:

6/36 = / 6/15 = /

10/24 = / 12/18 = /

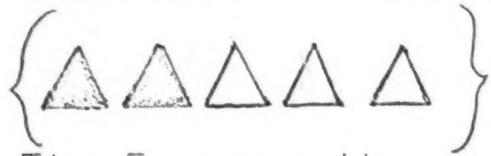
4

KEY

Name________________________
Team________________________
Teacher______________________
Date________________________

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 5 Look at this example:


= 2/5

The 5 names the number of objects in the set. This is called the _denominator_.

The 2 names the number of objects being compared to the total set. This is called a _numerator_.

2

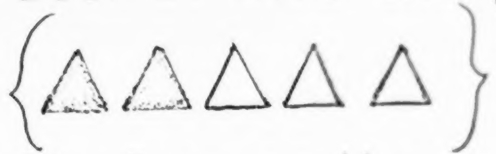
F 6 Rename each numeral in a simpler form:

3 X 1/5 = _3/5_ 1/8+2/8+2/8 = _5_ X 1/8 = _5/8_

9 X 1/10 = _9/10_ 1/7+3/7+2/7 = _6_ X 1/7 = _6/7_

6

F 5 Look at this example:

 = 2/5

The 5 names the number of objects in the set. This is called the denominator.

The 2 names the number of objects being compared to the total set. This is called a numerator.

2

F 6 Rename each numeral in a simpler form:

3 X 1/5 = 3/5 1/8+2/8+2/8 = 5 X 1/8 = 5/8

9 X 1/10 = 9/10 1/7+3/7+2/7 = 6 X 1/7 = 6/7

6

F 7 Solve the following problems:

Brenda said, "One-fourth of the apples are green."

Bill said, "Two-eighths of the apples are green."

Are Brenda and Bill talking about the same number of apples? yes

******

Sandra said, "Six-eighths of the oranges are green."

Margo said, "Two-thirds of the oranges are green."

Are Sandra and Margo talking about the same number of oranges? no

----

FRACTIONS PRE-TEST UNIT II FORMS A & B

F 8

Complete these equations:

$4/8 = \dfrac{\boxed{4} \times 1}{\boxed{4} \times 2}$ $8/12 = \dfrac{4 \times \boxed{2}}{4 \times \boxed{3}}$

$9/12 = \dfrac{\boxed{3} \times 3}{\boxed{3} \times 4}$ $6/9 = \dfrac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$6/8 = \dfrac{6 \div 2}{8 \div 2} = \dfrac{\boxed{3}}{\boxed{4}}$ $3/6 = \dfrac{\boxed{3} \div 3}{\boxed{6} \div 3} = 1/2$

$9/12 = \dfrac{9 \div \boxed{3}}{12 \div 3} = \dfrac{3}{\boxed{4}}$ $4/10 = \dfrac{\boxed{4} \div 2}{10 \div \boxed{2}} = 2/5$

---- 8

F 9 Write each fraction in the simplest

4/8 = $\frac{\boxed{4} \times 1}{\boxed{4} \times 2}$ 8/12 = $\frac{4 \times \boxed{2}}{4 \times \boxed{3}}$

9/12 = $\frac{\boxed{3} \times 3}{\boxed{3} \times 4}$ 6/9 = $\frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

6/8 = $\frac{6 \div 2}{8 \div 2} = \frac{\boxed{3}}{\boxed{4}}$ 3/6 = $\frac{\boxed{3} \div 3}{\boxed{6} \div 3}$ = 1/2

9/12 = $\frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$ 4/10 = $\frac{\boxed{4} \div 2}{10 \div \boxed{2}}$ = 2/5

8

F 9 Write each fraction in the simplest form:

6/36 = 1/6 6/15 = 2/5

10/24 = 5/12 12/18 = 2/3

4

Name ____________________

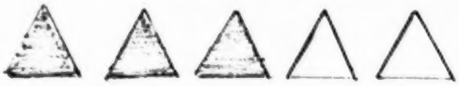
Team ____________________

Teacher ____________________

Date ____________________

FRACTIONS POST-TEST UNIT II FORM B

F 5 Look at the example:



= 3/5

The 5 names the number of objects in the set. The 3 names the number of objects being compared to the total set.

1. Which number is the numerator? ____
2. Which number is the denominator? ____

___ 2

F 6 Rename each numeral in a simpler form:

4 X 1/5 = ___________

8 X 1/10 = ___________

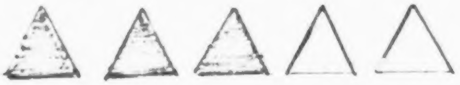
2/7+1/7+3/7 = _______ X 1/7 = _________

2/8+3/8+1/8 = _______ X 1/8 = _________

___ 6

F 7 Solve the following problems:

F 5 Look at the example:

 = 3/5

The 5 names the number of objects in the set. The 3 names the number of objects being compared to the total set.

1. Which number is the numerator? ____
2. Which number is the denominator? ____

___
2

F 6 Rename each numeral in a simpler form:

4 X 1/5 = ___________
8 X 1/10 = ___________
2/7+1/7+3/7 = _______ X 1/7 = _________
2/8+3/8+1/8 = _______ X 1/8 = _________

___
6

F 7 Solve the following problems:

1. Dick said, "Two-eighths of the tops are red."

   Jack said, "One-fourth of the tops are red."

   Are Dick and Jack talking about the same number of tops? __________

****

2. Sue said, "Four-sixths of the oranges are ripe."

   Jane said, "Six-twelfths of the oranges are ripe."

   Are Sue and Jane talking about the same number of oranges? __________

___
8

FRACTIONS POST-TEST UNIT II FORM B

F 8 Complete these equations:

$9/12 = \frac{\square \times 3}{\square \times 4}$ $8/10 = \frac{2 \times \square}{2 \times \square}$

$5/8 = \frac{\square \times 1}{\square \times 2}$ $6/9 = \frac{3 \times \square}{3 \times \square}$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$ $4/10 = \frac{\square \div 2}{10 \div \square} = \frac{2}{5}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$ $3/6 = \frac{\square \div 3}{\square \div 3} = \frac{1}{2}$

$\frac{\quad}{8}$

F 9 Write each fraction in the simplest form:

$9/12 = \frac{\square \times 3}{\square \times 4}$ $8/10 = \frac{2 \times \square}{2 \times \square}$

$5/8 = \frac{\square \times 1}{\square \times 2}$ $6/9 = \frac{3 \times \square}{3 \times \square}$

$9/12 = \frac{9 \div \square}{12 \div 3} = \frac{3}{\square}$ $4/10 = \frac{\square \div 2}{10 \div \square} = \frac{2}{5}$

$6/8 = \frac{6 \div 2}{8 \div 2} = \frac{\square}{\square}$ $3/6 = \frac{\square \div 3}{\square \div 3} = \frac{1}{2}$

$\frac{\quad}{8}$

F 9 Write each fraction in the simplest form:

6/9 = 15/20 =

10/12 = 9/15 =

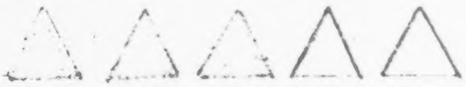
$\frac{\quad}{4}$

KEY

Name ________________
Team ________________
Teacher ________________
Date ________________

FRACTIONS POST-TEST UNIT II FORM B

F 5 Look at the example:


= 3/5

The 5 names the number of objects in the set. The 3 names the number of objects being compared to the total set.

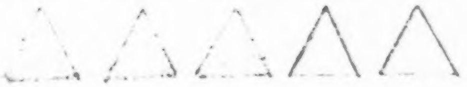
1. Which number is the numerator? 3
2. Which number is the denominator? 5

___
2

F 6 Rename each numeral in a simpler form:

4 X 1/5 = 4/5
8 X 1/10 = 8/10
2/7 + 1/7 + 3/7 = 6/7 X 1/7 = 6/7

F 5 Look at the example:



= 3/5

The 5 names the number of objects in the set. The 3 names the number of objects being compared to the total set.

1. Which number is the numerator? 3
2. Which number is the denominator? 5

2

F 6 Rename each numeral in a simpler form:

4 X 1/5 = 4/5

8 X 1/10 = 8/10

2/7+1/7+3/7 = 6/7 X 1/7 = 6/7

2/8+3/8+1/8 = 6/8 X 1/8 = 6/8

6

F 7 Solve the following problems:

1. Dick said, "Two-eighths of the tops are red."

   Jack said, "One-fourth of the tops are red."

   Are Dick and Jack talking about the same number of tops? yes

****

2. Sue said, "Four-sixths of the oranges are ripe."

   Jane said, "Six-twelfths of the oranges are ripe."

   Are Sue and Jane talking about the same number of oranges? no

8

FRACTIONS POST-TEST UNIT II FORM B

F 8 Complete these equations:

$9/12 = \frac{\boxed{3} \times 3}{\boxed{3} \times 4}$ $8/10 = \frac{2 \times \boxed{4}}{2 \times \boxed{5}}$

$5/8 = \frac{\boxed{5} \times 1}{\boxed{4} \times 2}$ $6/9 = \frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$9/12 = \frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$ $4/10 = \frac{\boxed{4} \div 2}{10 \div \boxed{2}} = \frac{2}{5}$

$6/8 = \frac{6 \div 2}{3 \div 2} = \frac{\boxed{3}}{\boxed{4}}$ $3/6 = \frac{\boxed{3} \div 3}{\boxed{6} \div 3} = \frac{1}{2}$

$\frac{\quad}{8}$

$9/12 = \frac{\boxed{3}\ \times 3}{\boxed{3}\ \times 4}$ $8/10 = \frac{2 \times \boxed{4}}{2 \times \boxed{5}}$

$5/8 = \frac{\boxed{5}\ \times 1}{\boxed{4}\ \times 2}$ $6/9 = \frac{3 \times \boxed{2}}{3 \times \boxed{3}}$

$9/12 = \frac{9 \div \boxed{3}}{12 \div 3} = \frac{3}{\boxed{4}}$ $4/10 = \frac{\boxed{4} \div 2}{10 \div \boxed{2}} = \frac{2}{5}$

$6/8 = \frac{6 \div 2}{3 \div 2} = \frac{\boxed{3}}{\boxed{4}}$ $3/6 = \frac{\boxed{3} \div 3}{\boxed{6} \div 3} = \frac{1}{2}$

$\frac{\quad}{8}$

F 9 Write each fraction in the simplest form:

6/9 = 2/3 15/20 = 3/4

10/12 = 5/6 9/15 = 3/5

$\frac{\quad}{4}$

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7

$\frac{\quad}{4}$

F 11 Rewrite these fractions as a mixed fraction:

8/5 = ____ 7/3 = ____ 18/8 = ____

$\overline{\quad\quad}$

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7

$\frac{\quad}{4}$

F 11 Rewrite these fractions as a mixed fraction:

8/5 = ____ 7/3 = ____ 18/8 = ____

$\frac{\quad}{3}$

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 ○ 1/3 4/7 ○ 8/14 2/3 ○ 2/7

$\frac{\quad}{3}$

F 13 Complete each set of equivalent fractions: (Beware!)

1/2	2/4	/12	/16	/18	/20
2/3	4/6	/9	/12	/18	/21

$\frac{\quad}{8}$

F 14 Name the sum and/or difference:

1/3	4/7	8/9	7/12
+2/6	+3/4	-2/3	-1/4

$\frac{\quad}{4}$

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 15 Name the sum and/or difference:

4 1/3	1 7/10	10 4/7	9 4/12
+1 2/9	+4 3/5	- 2 1/5	-4 4/6

– – –
4

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 10 Complete these:

3/9	1/4	5/6	6/7
+ 2/9	+ 2/4	- 3/6	- 2/7
5/9	3/4	2/6	4/7

--- 4

F 11 Rewrite these fractions as a mixed fraction:

8/5 = $1\frac{3}{5}$ 7/3 = $2\frac{1}{3}$ 18/8 = $2\frac{1}{4}$

--- 3

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 > 1/3 4/7 = 8/14 2/3 < 2/7

F 10 Complete these:

$\begin{array}{r} 3/9 \\ +\,2/9 \\ \hline 5/9 \end{array}$ $\quad$ $\begin{array}{r} 1/4 \\ +\,2/4 \\ \hline 3/4 \end{array}$ $\quad$ $\begin{array}{r} 5/6 \\ -\,3/6 \\ \hline 2/6 \end{array}$ $\quad$ $\begin{array}{r} 6/7 \\ -\,2/7 \\ \hline 4/7 \end{array}$

4

F 11 Rewrite these fractions as a mixed fraction:

8/5 = 1 3/5 7/3 = 2 1/3 18/8 = 2 1/4

3

F 12 Complete the number sentences. Write > or < or = in each circle

1/2 > 1/3 4/7 = 8/14 2/3 < 2/7

3

F 13 Complete each set of equivalent fractions: (Beware!)

1/2 2/4 6/12 8/16 9/18 10/20

2/3 4/6 6/9 8/12 12/18 14/21

8

F 14 Name the sum and/or difference:

$\begin{array}{r} 1/3 \\ +2/6 \\ \hline \end{array}$ $\quad$ $\begin{array}{r} 4/7 \\ +3/4 \\ \hline \end{array}$ $\quad$ $\begin{array}{r} 8/9 \\ -2/3 \\ \hline \end{array}$ $\quad$ $\begin{array}{r} 7/12 \\ -1/4 \\ \hline \end{array}$

4/6 or 2/3 37/28 or 2/9 4/12 or 1/3

1 9/28

4

FRACTIONS PRE-TEST UNIT III FORMS A & B

F 15 Name the sum and/or difference:

	4 1/3	1 7/10	10 4/7	9 4/12
	+1 2/9	+4 3/5	- 2 1/5	-4 4/6
--- 4	5 5/9	5 13/10 or 6 3/10	8 13/35	4 8/12 or 4 2/3

Name ____________________
Team ____________________
Teacher __________________
Date ____________________

FRACTION POST-TEST UNIT III FORM B

F 10 Complete these:

$$\begin{array}{r} 2/4 \\ +\ 1/4 \\ \hline \end{array} \qquad \begin{array}{r} 6/6 \\ -\ 2/6 \\ \hline \end{array} \qquad \begin{array}{r} 8/7 \\ -\ 2/7 \\ \hline \end{array} \qquad \begin{array}{r} 6/9 \\ +\ 2/9 \\ \hline \end{array}$$

___
4

F 11 Rewrite these fractions as mixed fractions:

6/4 = ________ 15/5 = ________ 7/3 = ________

___
3

F 12 Complete these number sentences. Write >, < or = in each circle:

3/4 ○ 6/8 5/16 ○ 3/8 1/2 ○ 1/3

___
3

F 13 Complete each set of equivalent frac-

F 10 Complete these:

2/4	6/6	8/7	6/9
+ 1/4	- 2/6	- 2/7	+ 2/9

$\frac{\quad}{4}$

F 11 Rewrite these fractions as mixed fractions:

6/4 = ________ 15/5 = ________ 7/3 = ________

$\frac{\quad}{3}$

F 12 Complete these number sentences. Write >, < or = in each circle:

3/4 ○ 6/8 5/16 ○ 3/8 1/2 ○ 1/3

$\frac{\quad}{3}$

F 13 Complete each set of equivalent fractions. Be careful!

1/2	2/4	/14	/16	/18	/20
2/3	4/6	/9	/12	/18	/21

$\frac{\quad}{18}$

F 14 Name the sum or difference in each problem:

4/7	2/3	7/12	7/9
+ 2/4	+ 1/6	- 2/4	- 1/3

$\frac{\quad}{4}$

F 15

1-2/9	4-3/5	10-4/7	9-4/12
+ 4-1/3	+ 1-7/10	- 2-1/5	- 4-4/6

$\frac{\quad}{4}$

KEY

Name ____________________
Team ____________________
Teacher ____________________
Date ____________________

FRACTION POST-TEST UNIT III FORM B

F 10 Complete these:

2/4	6/6	8/7	6/9
+ 1/4	- 2/6	- 2/7	+ 2/9
3/4	4/6	6/7	8/9

___
4

F 11 Rewrite these fractions as mixed fractions:

6/4 = 1 2/4 or 1 1/2   15/5 = 3/1 or 3   7/3 = 2 1/3

___
3

F 12 Complete these number sentences. Write >, < or = in each circle:

3/4 (=) 6/8   5/16 (<) 3/8   1/2 (>) 1/3

___
3

F 13 Complete each set of equivalent fractions. Be careful!

F 10 Complete these:

2/4 6/6 8/7 6/9
+ 1/4 - 2/6 - 2/7 + 2/9
3/4 4/6 6/7 8/9

4

F 11 Rewrite these fractions as mixed fractions:

6/4 = 1 2/4 or 1 1/2 15/5 = 3/1 or 3 7/3 = 2 1/3

3

F 12 Complete these number sentences. Write >, < or = in each circle:

3/4 (=) 6/8 5/16 (<) 3/8 1/2 (>) 1/3

3

F 13 Complete each set of equivalent fractions. Be careful!

1/2 2/4 7/14 8/16 9/18 10/20

2/3 4/6 6/9 6/12 12/18 14/21

18

F 14 Name the sum or difference in each problem:

4/7 2/3 7/12 7/9
+ 2/4 +1/6 - 2/4 -1/3
30/28 or 1 2/28 5/6 1/12 4/9

4

F 15 1-2/9 4-3/5 10-4/7 9-4/12
+4-1/3 + 1-7/10 - 2-1/5 - 4-4/6
5 5/9 5 13/10 8 13/35 4 8/12 or 4 2/3
or

4